### **SERVICE MANUAL**

### RA-2 CHASSIS

MODEL COMMANDER DEST. CHASSIS NO.

KP-41T35 SCC-K90G-A RM-Y136A US

KP-41T35 RM-Y136A Canadian SCC-N22C-A

KP-48V45 SCC-K90F-A RM-Y901 US

KP-53V45 RM-Y901 SCC-K90E-A US

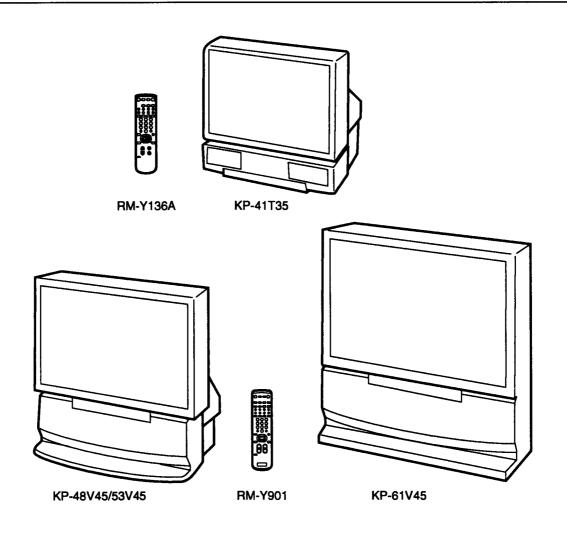
KP-53V45 RM-Y901 Canadian SCC-N22D-A **MODEL** COMMANDER DEST. CHASSIS NO.

KP-61V45 RM-Y901 US SCC-K90H-A

KP-61V45 RM-Y901 Canadian SCC-N22E-A



996515301





**COLOR REAR VIDEO PROJECTOR** SONY

※ Please file according to model size. .......

### **SPECIFICATIONS**

Projection system 3 picture tubes, 3 lenses,

horizontal in-line system

Picture tube

7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and

liquid cooling system

Projection lenses High performance, largediameter hybrid lens F1.1

Screen size (measured diagonally)

KP-41T35 41 inches KP-48V45 48 inches KP-53V45 53 inches KP-61V45 61 inches

Television system American TV standards

Channel coverage VHF: 2 - 13 / UHF: 14 - 69 /

CATV: 1-125

Antenna

75 ohm external antenna terminal for VHF/UHF

Inputs/output

VIDEO IN 1 **VIDEO 2 INPUT** S VIDEO (4-pin mini DIN): Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal) 75 ohms

VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync

negative

AUDIO (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms

VIDÉO IN 3

VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync

negative

AUDIO (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms

TV OUT MONITOR OUT

VIDEO (phono jack): 1 Vp-p. 75-ohms unbalanced, sync

negative

AUDIO (phono jacks) 500 mVrms (100% modulation), Impedance: 10 kilohms

AUDIO (VAR/FIX) OUT (phono

jacks)

900 mVrms (100% modulation) Impedance: 5 kilohms (for KP-48V45/53V45/61V45)

AUDIO OUT (phono jacks): 900 mVrms (100% modulation) Impedance: 5 kilohms (for KP-41T35)

Speaker Full range speaker 100 mm (3.9

inches) diameter

15 W × 2 Speaker output

> CENTER SPEAKER IN: 30 W × 1 (NORMAL),  $60 \text{ W} \times 1 \text{ (MAX)}$ ,

16 ohms

(for KP-48V45/53V45/61V45)

10 W × 2 (for KP-41T35)

**Power requirement** 

120 V, 60 Hz

**Power consumption** 

175 W

Standby mode: 3 W (for KP-48V45/53V45/61V45)

165 W

Standby mode: 3 W (for KP-41T35)

|          | Dimensions(W/H/D)   | Mass                     |
|----------|---|--------------------------|
| KP-41T35 | 951 × 1,022 × 602 mm<br>(37 <sup>1</sup> / <sub>2</sub> × 40 <sup>1</sup> / <sub>4</sub> × 23 <sup>3</sup> / <sub>4</sub> inches) | 55 kg<br>(121 lbs 4 oz)  |
| KP-48V45 | 1,106 × 1,337 × 571 mm<br>(43 <sup>5</sup> /s × 52 <sup>5</sup> /s × 22 <sup>1</sup> /2 inches)                                   | 70 kg<br>(154 lbs 5 oz)  |
| KP-53V45 | 1,218 × 1,413 × 614 mm<br>(48 × 55 <sup>5</sup> /s × 24 <sup>1</sup> /4 inches)   | 73 kg<br>(161 lbs 2 oz)  |
| KP-61V45 | 1,338 × 1,506 × 642 mm<br>(52 ³/4 × 59 ³/s × 25 ³/s inches)   | 124 kg<br>(273 lbs 9 oz) |

### Supplied accessories

Remote control RM-Y901 (1) (for KP-48V45/53V45/61V45)

Remote control RM-Y136A (1)

(for KP-41T35)

Size AA (R6) battery (2)

### **Optional accessories**

U/V mixer EAC-66

Connecting cables RK-74A, VMC-810S/ 820S, YC-15V/30V, VMC-720M Stand SU-41T2 (For KP-41T35)

Design and specifications are subject to change without notice.

### (●)\* SRS (SOUND RETRIEVAL SYSTEM)

The ( SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pendeing.

The word 'SRS' and the SRS symbol (●) are registered trademarks of SRS Labs, Inc.

### SAFETY CHECK-OUT

### (US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cords for cracks and abrasion.
   Recommend the replacement of any such line cord to the customer.
- Check the B+ and HV to see if they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the metal trim, metallized knobs, screws, and all other exposed metal parts for AC leakage.
   Check leakage as described below.

To Exposed Metal
Parts on Set

0.15μF

AC
voltmeter
(0.75V)

Fig. A. Using an AC voltmeter to check AC leakage.

Earth Ground

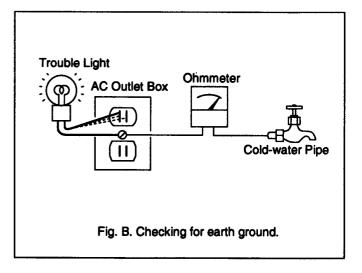
### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufactures' instructions to use these instruments
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

### **HOW TO FIND A GOOD EARTH GROUND**

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



### **TABLE OF CONTENTS**

| Sec | ction       | <u>Title</u>   | <u>Page</u> | Sec | <u>tion</u> | <u>Title</u> <u>F</u>                        | 'age  |
|-----|-------------|--|-------------|-----|-------------|--|-------|
| 1.  | GENE        | RAL  |             |     | 2-7.        | High-Voltage Cable Installation and Removal  |       |
|     | Step 2:     | Hookup   | 5           |     |             | Picture Tube Removal (KP-41T35)              |       |
|     |             | Setting up the remote control  |             |     |             | Picture Tube Removal (KP-48V45/53V45/61V45)  | . 28  |
|     |             | Setting up the projection TV automatically   |             |     | 2-9-1.      | Service stay Assy How to use and             |       |
|     |             | (AUTO SET UP)  | 10          |     |             | Carry Back Service stay Assy                 |       |
|     |             | ng the menu language   |             |     |             | Picture Tube Bracket Assy Removal (KP-41T35) | . 29  |
|     |             | ng the TV  |             |     | 2-9-3.      | Picture Tube Bracket Assy Removal            |       |
|     |             | ng two programs at one time - PIP/P&P  |             |     |             | (KP-48V45/53V45/61V45)                       | 29    |
|     |             | (Twin View™)/CH INDEX  | 14          |     | 2-9-4.      | Seting of Service stay Assy                  |       |
|     |             | g the picture (FREEZE)   |             |     |             | (KP-41T35/48V45/53V45)                       |       |
|     |             | ng the picture (VIDEO)   |             |     | 2-9-5.      | Install a Chassis Assy                       | 30    |
|     |             | ng the color temperature (TRINITONE)   |             | 2   | CET.        | UP ADJUSTMENTS                               | 21    |
|     |             | ng the video mode (VIDEO)  |             | ٥.  | 351-        | OF ADJUSTMENTS                               | 31    |
|     | Adjustin    | ng the sound (AUDIO)   | 16          | 4   | SAFI        | ETY RELATED ADJUSTMENTS                      | 51    |
|     | Using a     | udio effect (EFFECT)   | 16          | 7.  | OA! .       |  | ٠,    |
|     | Selectin    | ng stereo or bilingual programs (MTS)  | 17          | 5.  | CIRC        | CUIT ADJUSTMENTS                             | 54    |
|     | Setting     | the speaker switch (SPEAKER)   | 17          | -   |             |  | _     |
|     |             | audio out (AUDIO OUT)  |             | 6.  | DIAG        | RAMS   |       |
|     | Setting     | daylight saving time (DAYLIGHT SAVING)   | 18          |     | 6-1.        | Block Diagrams (1)                           | 59    |
|     |             | the clock (CURRENT TIME SET)   | 18          |     |             | Block Diagrams (2)                           |       |
|     |             | the timer to turn the projection TV on and off   |             |     |             | Block Diagrams (3)                           |       |
|     |             | (ON/OFF TIMER)   |             |     |             | Block Diagrams (4)                           |       |
|     | Custom      | izing the channel names (CHANNEL CAPTION)  |             |     | 6-2.        | Frame Schematic Diagram                      |       |
|     | Blockin     | ig out a channel (CHANNEL BLOCK)   |             |     | 6-3.        | Circuit Boards Location                      | 72    |
|     | _           | your favorite channels (FAVORITE CHANNEL)  |             |     | 6-4.        | Printed Wiring Boards and Schematic Diagrams | . 72  |
|     |             | video labels (VIDEO LABEL)   |             |     |             | • A Board                                    | 73    |
|     | _           | Caption Vision (CAPTION VISION)  |             |     |             | • PT Board                                   | 81    |
|     |             | ng video equipment   |             |     |             | • PV Board                                   | 87    |
|     |             | ng a cable box or DBS receiver   |             |     |             | • G Board                                    | 93    |
|     |             | eshooting  |             |     |             | • ZR, ZG, Boards                             |       |
|     | Index to    | parts and controls   | 23          |     |             | • HA Board                                   |       |
| 2   | DICAC       | SSEMBLY  |             |     |             | • CR, CG, CB Boards                          |       |
| ۷.  |             |  | 25          |     | 6-5.        | Semiconductors                               | 110   |
|     |             | Rear Board Removal   |             | -   | EVD         | ODED WEWS                                    |       |
|     |             | Service Position   |             | 7.  |             | LODED VIEWS                                  |       |
|     |             |  |             |     | 7-1.        | Cover (KP-41T35)                             |       |
|     |             | HA Board Removal (KP-41T35)<br>HA Board Removal (KP-48V45/53V45/61V45)   |             |     | 7-2.        | Cover (KP-48V45/53V45)                       |       |
|     |             | Beznet Assy Removal (KP-41T35)   |             |     | 7-3.        | Cover (KP-61V45)                             |       |
|     |             | Beznet Assy Removal (KP-48V45/53V45)   |             |     | 7-4.        | Chassis (KP-41T35)                           |       |
|     |             | Screen Frame Assy Removal (KP-61V45)   |             |     | 7-5.        | Chassis (KP-48V45/53V45/61V45)               |       |
|     |             | Mirror Cover Assy Removal (KP41T35)  |             |     | 7-6.        | Picture Tube (KP-41T35)                      |       |
|     |             | Mirror Cover Assy Removal (KP-48V45/53V45)   |             |     | 7-7.        | Picture Tube (KP-48V45/53V45/61V45)          | . 113 |
|     |             | Reflection Mirror Removal (KP-61V45)   |             | R   | FI F        | CTRICAL PARTS LIST                           | 120   |
|     | <u>~</u> J. | TANIFORM THE TANIFORM (THE TOTAL AND THE TANIFORM THE TAN | /           | v.  |             |  |       |

### (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

### (ATTENTION)

APRES AVOIR DECONNÈCTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### ATTENTION!!

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

### ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE A SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

### **SECTION 1** GENERAL

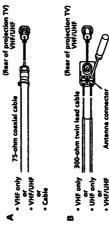
## the Operating Instruction Manual. The page numbers of the The operating instructions mentioned here are partial abstracts from Operating Instruction Manual remain as in the manual

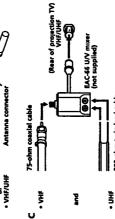
## Step 2: Hookup

anterna with your projection TV, we recommend that you connect an outdoor antenna or a cable TV system Although you can use either an indoor or outdoor to get better picture quality.

## Connecting an antenna

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directly to the terminal, follow one of the instructions below depending on your cable type.





100-ohm twin lead cable

- Notes

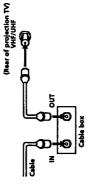
   Most VHF/UHF combination antenues have a signal splitter.
  Remove the splitter before attaching the appropriate connector.
   If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37.

### Connecting an antenna/cable TV system without a VCR

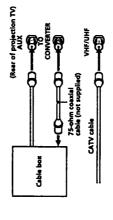
### (Rear of projection TV) VHE/LIHE To cable or antenna 3

### To cable box

If your cable company requires you to connect a cable box, make the connection as follows:



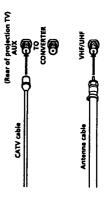
## To cable box and cable



Pay cable TV systems use scrambled or encoded signals requiring a cable box\* in addition to the normal cable connection.

- The cable box will be supplied by the cable company.
- You cannot watch the signal through an AUX connector as a window picture.

### To cable and antenna



## Do not connect anything to the TO CONVERTER connector in

# Connecting an antenna/cable TV system with a VCR

For details on connection, see your VCR instruction

After making these connections, you will be able to do

Before making the connection, disconnect the AC

power cords of the equipment to be connected.

program
• Watch two TV programs at once using PIP

· Record one TV program while viewing another

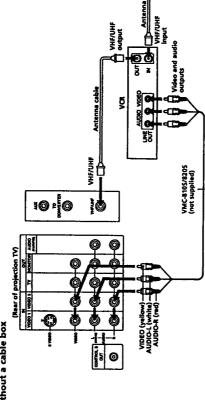
View the playback of video tapes

the following:

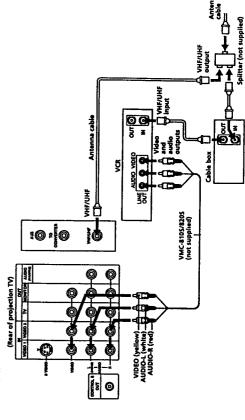
## To a conventional VCR

To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (MONO) of VIDEO 1/3 IN on the projection

### Without a cable box

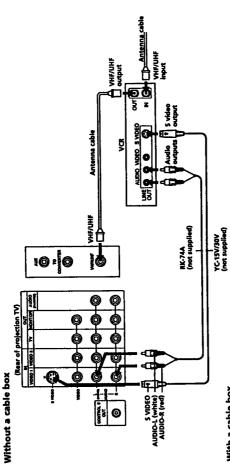


### With a cable box

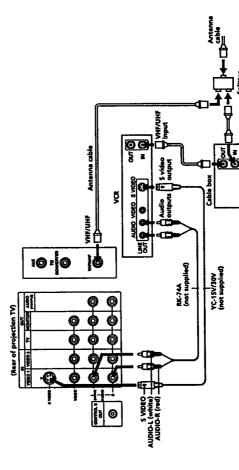


## To an S video equipped VCR

the following connections.
Whenever you connect the cable to the S VIDEO input connector, the projection TV automatically receives S If your VCR has an S VIDEO output connector, make video signals.



## With a cable box



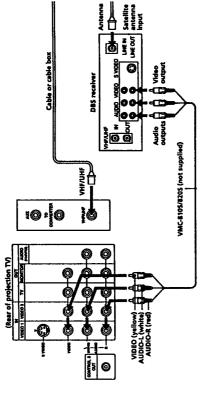
Video signals are composed of Y (luminance) and C (chroma) signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connections

## 8-EN | Getting Started

## Connecting a DBS receiver

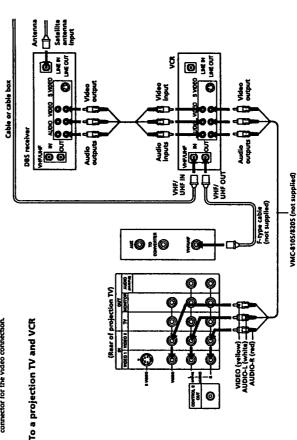
For details on connection, see the instruction manual of the DBS (Digital Broadcasting Satellites) receiver.

### To a projection TV



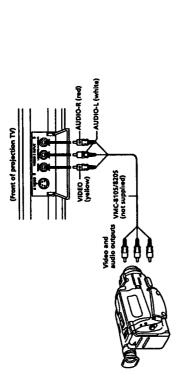
Note

• You can use the S VIDEO connector or the composite video connector for the video connecton.



9 <sup>23</sup> **Getting Started** 

Use this connection to view a camcorder picture.

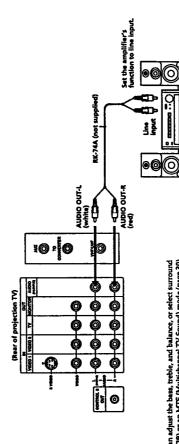


To convect a monaural camcorder, connect the audio output of the camcorder to AUDIO-L (MONO) of VIDEO 2 INPUT on the projection TV.

To connect a cancorder equipped with the S video output, connect the S video output of the cancorder to the S VIDEO connector of the projection TV.

## Connecting an audio system

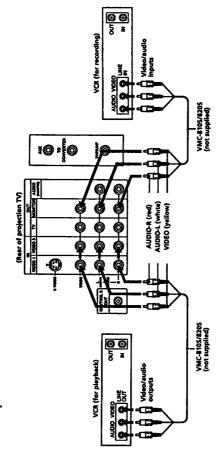
When connecting audio equipment, see page 28 for more information.



You can adjust the bass, treble, and balance, or select surround (page 29) or an MTS (Multichannel TV Sound) mode (page 30) with the supplied remote control.

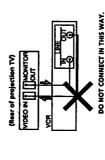
# Connecting two VCRs for tape editing using MONITOR OUT

You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.



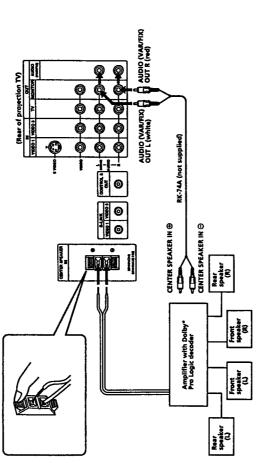
Do not change the unput signal while editing through MONITOR OUT, or the outputs signal will also change.
 You can use the 5 video jack to connect a VCR for playback and the composite video connector to connect a VCR for playback.

When connecting a single VCR to the projection TV, do not connect the MONITOR OUT to the VCR's time ipput, while at the same time connecting from the projection TV's VIDEO IN connectors to the VCR's line output, as shown below.



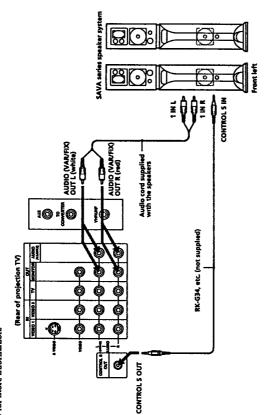
# Connecting an amplifier with Dolby Pro Logic decoder

instead of the projection TV audio system, you can still use the projection TV's center speaker. See "Setting the If you use an amplifier with Dolby Pro Logic decoder speaker switch (SPEAKER)" on page 31. • Manufactured under license from Dolby Laboratones
Licensung Corporation. Additionally licensed under Canadian
patent munder LiO35877. "Dolby," the double-D symbol ID
and "Pro Logic" are trademarks of Dolby Laboratones
Lecensung Corporation.



# Connecting a Sony SAVA series speaker system

If you have a Sony SAVA series speaker system, connect your speakers to the AUDIO (VAR/FDX) OUT jacks (or MONITOR OUT jacks) on the rear of the projection TV with the audio cable supplied with the speakers. You surround system and super woofer mode, and control them with the supplied remote control. When can take advantage of the speakers' Dolby Pro Logic connecting a Sony SAVA series speaker system, see page 31 for more information.



# Using the S-Link function with S-Link capable Sony VCRs

The S-Link feature allows you to operate the projection IV and VCR with the S-Link function in the following

- When you press the VCR's play button, the projection TV's input mode is automatically changed to video input which is connected, and the VCR starts playing a tape.
  You can turn off the projection TV and VCR together using the SYSTEM OFF button (see page 40 for details).

- Notes

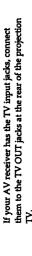
   The projection TV may malfunction if you connect the \$-Link
  cable to the projection TV without connecting the other end of
  the cable to the VCR.

   When making the \$-Link connection, be sure to insert all the
  connectors firmly.

VMC-8105/8205 (not supplied)

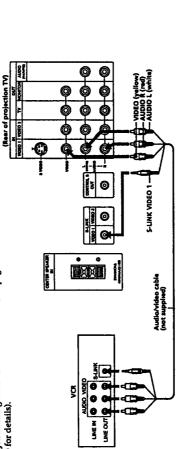
090 1 00A

AUDIO R (red)
AUDIO L (white)



Connect an optional AV receiver to the VIDEO 1 IN jacks at the rear of the projection TV.

Connecting an AV receiver



Monitor video 🖟 🖟 🖟 Monitor audio output

Ö

ही ही TV video Input

TV audio input

0

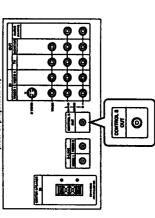
VMC-8105/8205 (not supplied)

### 9 9 9 9 (Rear of projection TV) **O** CONTROL 8 OUT i 0 0

# Connecting other Sony equipment with CONTROL S jack

This feature allows you to control your projection TV and other Sony equipment with one remote control.

TV's remote control, connect the input of the equipment to CONTROL S OUT jack on the projection TV. To control other Sony equipment with the projection



### Step 3: Setting up the remote contro

## Inserting batteries

Insert two size AA (R6) batteries (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.





DBS operation buttons. PIP operation buttons.

buttons.

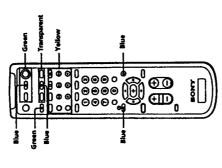
Yellow....

Blue

- If the remote control does not operate properly or the indicators of the buttons on the remote control do not light up, the battenes may be worn out. When replacing batteries, Under normal conditions, batteries will last up to six months.
  - replace both of them with new ones.

    Do not mix old batteries with new ones or mix different types
- contamurated area of the battery compartment with a cloth and replace the old batternes with new ones. To prevent the electrolyte from leaking, remove the batternes when you don't plan to use the remote control for a long period of time. · If the electrolyte inside the battery should leak, wipe the of batternes together.
  - Do not handle the remote control roughly. Do not drop it, step on it, or let it get wet.
    - Do not place the remote control in direct sunlight, near a heater, or where the humidity is high.

### Buttons relevant to power operations. TV/VCR/DBS/Cable box operation in different colors to represent the available functions Names of buttons on the remote control are indicated fransparent ...... TV/VCR/DBS/Cable box function buttons. Press the appropriate function button first to change the Getting to know buttons on the remote control's function. remote control **Button** color Label color (light up) White .... Green ...



### Step 4: Setting up the projection automatically

(AUTO SET UP)

You can set up your projection TV easily by using the AUTO SET UP feature. It presets all the receivable channels, adjusts the convergence and changes the onscreen menu language. To set up the projection TV manually, see "Adjusting convergence" (page 19), Setting cable TV on or off" (page 20), "Presetting channels" (page 21) and "Changing the menu language" (page 21).

If the projection TV is set to a video input, you cannot perform AUTO SET UP. Press TV/VIDEO so that a channel number appears.

| (Front of projection TV) | SETUP TVVNDEO - VOLUME + -CHANNEL+ POWER GENERALIN |  |
|--------------------------|--|--|
|                          | BETU   |  |

Before you start using AUTO SET UP, be sure to connect the antenna or cable to the projection TV (see page 6).

1 Press POWER to turn the projection TV on.



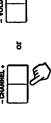
2 Press SETUP on the front of the projection AUTO SET UP screen appears.





3 Press CHANNEL +/- or VOLUME + to select the on-screen menu language.

If you prefer Spanish or French to English, you can change the on-screen menu language



All of the menus will be set to the factory preset condition in the selected language.

Press VOLUME - to start AUTO SET UP. 4



<u>₹</u>8

OF STATE



AUTO PROGRAM

"AUTO PROGRAM" appears on the screen and the automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CABLE is set to ON TV starts scanning and presetting channels automatically.

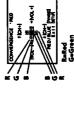
野 CONTINUE TO

### To exit AUTO PROGRAM Press any button.

6 Adjust convergence.
(1) Press CHANNEL +.

The CONVERGENCE adjustment screen appears.





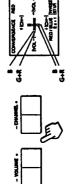
Getting Started | 17-EN

16-EN | Getting Started



Na.+ ### +ha.+ TOP OF

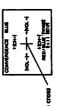
(3) Using CHANNEL +/- or VOLUME +/-, move the line until it converges with the center green



To move horizontal line up/down, press CHANNEL

To move vertical line right/left, press VOLUME +/-.

(4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a



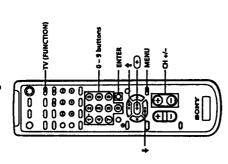
Using the AUX connector, press TV (black button) first and make sure that "AUX" is displayed beside the channel number on the screen. Then follow the steps 2 to 6 above to perform AUTO-SET UP:

To preview the main functions (DEMO)
Press TV/VIDEO on the projection TV in step 4. The functions and menus are displayed one by one.

To exit DEMO Press any button.

## **Erasing or adding channels**

After AUTO SET UP, you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.



1 Press TV (FUNCTION).

- FUNCTION -



The main menu appears. 2 Press MENU.

Press + or + to select ♠, and press ⊕ The SET UP menu appears. m





Press + or + to select CHANNEL ERASE/ADD,

The CHANNEL ERASE/ADD menu appears and press .







If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and

vice versa. Erasing and adding channels is also available for the AUX input.

## (CONVERGENCE)

Selected channel numbe

Land of the Court of

₹ **⊕** ①

9

(2) Press CH +/- or the 0 - 9 buttons to select the

(1) Make sure the cursor (▶) is beside ERASE.

To erase an unwanted channel Erase and/or add channels:

Ŋ

channel you want to erase, and press ENTER.

three layers (red, green and blue). If they do not

The "-" indication appears beside the channel

(3) Press (E)

number, showing that the channel is erased

from the preset memory.

correct this, adjust convergence.

The CONVERGENCE adjustment screen appears. Press + or + to select CONVERGENCE, and



(3) Press (

The "+" indication appears beside the channel number, showing that the channel is added to the preset memory.



6 To erase and/or add other channels, repeat step 5.  $oldsymbol{7}$  Press MENU to return to the original screen.



Adjusting convergence

converge, the color is poor and the picture blurs. To The projection tube image appears on the screen in

You do not have to do this procedure if you perform AUTO SET UP (page 17). Do this procedure only when you want to adjust it manually.

1 Press MENU.

2 Press + or + to select ⊜, and press ⊕.

m

Fress φ or φ to move the cursor (₱) to ADD.
 Press the 0 − 9 buttons to select the channel you

To add a channel that you want

want to add, and press ENTER.

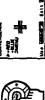
9

Getting Started | 19-EN

### Press +, +, +, or + to move the cursor ( $\triangleright$ ) to the symbol showing the line you want to adjust, and press 🕀 4





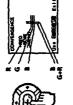


+RED: Red vertical and horizontal line (left/right/up/

down adjustment) +BLUE : Blue vertical and horizontal line (left/right/up/ down adjustment)

Press +, +, +, or + to move the line until it converges with the center green line, and press (+). M





| Press   | +  | •    | ٠     | ٠    |  |
|---------|----|------|-------|------|--|
| To move | υp | Down | Right | Left |  |

lines until all three lines converge and are Repeat steps 4 and 5 to adjust the other seen as a white cross. ø

 $oldsymbol{7}$  Press MENU to return to the original screen.

## Setting cable TV on or off

If you have connected the projection TV to a cable TV system, set CABLE to ON (the factory setting). If not, set CABLE to OFF.

AUTO SET UP (page 17). Do this procedure only when You do not have to do this procedure if you perform you want to set it manually.

### 1 Press MENU.

2 Press + or + to select 🖨, and press 🕒 .

### Set CABLE to ON or OFF: m

 Press + or + to move the cursor (►) to CABLE. and press (

(2) Press + or + to select ON or OFF, and press ←







## 4 Press MENU to return to the original screen.



"AUTO PROGRAM" appears on the screen and the

channels automatically. When all the receivable disappears and the lowest numbered channel is

projection TV starts scanning and presetting channels are stored, "AUTO PROGRAM"

If CABLE appears in gray, the propertion TV is set to a video input and you cannot select CABLE. Press TV (black button) so that a channel number appears.

4 Press MENU to return to the original screen.

To exit AUTO PROGRAM

Press any button.

## Presetting channels

You can preset TV channels easily by using the AUTO PROGRAM feature.

menu language

**Changing the** 

You do not have to do this procedure if you perform AUTO SET UP (page 17). Do this procedure only when you want to set it manually.

1 Press MENU.

2 Press + or + to select 🙉, and press 🕀.

Press + or + to select AUTO PROGRAM, and press ( m

change the menu language. You do not have to do this procedure if you select the language during AUTO SET UP (page 17). If you prefer Spanish or French to English, you can

Do this procedure only when you want to set it







1 Press MENU.

manually.

2 Press + or + to select ⊜, and press ⊕.

3 Press + or + to select LANGUAGE, and press ė



4 Press + or + to select your favorite language, "ENGLISH", "ESPAÑOL," or "FRANÇAIS" and press ©.



If the AUTO PROGRAM menu appears in gray, the proyection TV is set to a video input and you cannot select AUTO PROGRAM. Press TV (black button) so that a channel number

appears. Presetting charmels is also available for the AUX input.



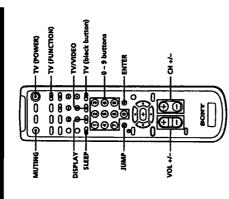


5 Press MENU to return to the original screen.

Certain parts of the Spanish or French menus remain in English.

### Operations

## Watching the TV



Press TV (POWER) to turn on the projection

The TIMER/STANDBY indicator flashes until the picture appears



If "VIDEO" appears on the screen, press TV (black button) so that a channel number appears.

2 Press TV (FUNCTION).

Once you press TV (FUNCTION), the projection TV function is set unless another function button is

22-EN | Operations

### Select the channel you want: To select a channel directly

Press the 0 – 9 buttons, and press ENTER. For example, to select channel 10, press 1, 0 and



To scan through channels

Press CH +/- until the channel you want appears.

8



The channel can also be selected without pressing

4 Press VOL +/- to adjust the volume.





### Switching quickly between two channels

You can use the JUMP button to switch or "jump" back and forth between two channels.

Press JUMP.



Pressing JUMP again switches the channel back to the one you selected last.

. You cannot jump to channels you scanned through using the CH +/- buttons.

Press MUTING.

Muting the sound

"MUTING" appears on the screen.



To restore the sound, press MUTING again, or press

## Displaying on-screen information

Press DISPLAY repeatedly until the desired display appears.

Each time you press DISPLAY, the display changes as follows:

Status display\* → XDS ON\*\* → [cc] 1 ON\*\*\* - DISPLAY OFF ← Channel number, the current time, channel caption displayed. SAP indication disappears after three (if set), and MTS mode (if SAP is selected) are

displayed on the screen if the broadcaster offers thus program name, program type, program length, call letters, and time of the show. When you select XDS Some programs are broadcast with XDS (Extended with the DISPLAY button, this information will be Data Service) which shows a network name,

\*\*\* Some programs are broadcast with Caption Vision. When you select Caption Vision with the DISPLAY button, Caption Vision will be displayed on the screen if the broadcaster offers this service. (See page 38 for selecting Caption Vision.)

To cancel the display, press DISPLAY repeatedly until "DISPLAY OFF" appears. "DISPLAY OFF" goes off after three seconds.

Setting the Sleep Timer

The projection TV stays on for the length of time you specify and then shuts off automatically

Each time you press SLEEP, the time changes as

Press SLEEP repeatedly until the time (minutes)

you want appears.

30 → 60 → 90 → SLEEP OFF



until "SLEEP OFF" appears, or turn off the projection TV. To cancel the Sleep Timer, press SLEEP repeatedly

## Watching a video input picture

Press TV/VIDEO repeatedly until the desired video input appears.

Each tune you press TV/VIDEO, the display changes as follows:

TV → VIDEO 1 → VIDEO 2 → VIDEO 3

To return to the TV picture, press TV (black button) so that a channel number appears.

### Changing the VHF/UHF input to the **AUX** input

"AUX" appears beside the channel number. Press TV (black button).

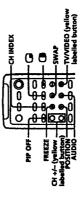


Pressing TV (black button) again switches back to the VHF/UHF input.

### programs at one time — PIP/P&P Watching two

(Twin View™)/CH INDEX

You can watch both the main/right picture and a window/left picture simultaneously using the Picturein-Picture (PIP) or the Picture-and-Picture (Twin View<sup>TM</sup>) feature.



Use the yellow labelled buttons for PIP operations.

## Displaying a window picture (PIP)

Press ().

input-source mode or TV channel for the main pictur Window picture (1/4 size) Main picture

nput-source mode or TV channel for the window picture

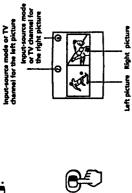
### Press 🕞 repestedly to display a smaller window picture.

Each time you press Q, the size of the window picture changes as follows: 1/4 size  $\rightarrow 1/9$  size  $\rightarrow 1/16$  size.

To remove the window picture, press PIP OFF.

## Displaying a left picture (P&P)

Press ()



To restore the normal picture, press PIP OFF.

- If the main/right picture is not receiving an image, the windrow/left picture may become a nousy picture. The windrow/left picture sound is also output from the AUDIO (VAR/FIX) OUT jacks when you listen to it.

### Changing the window/left picture input mode

## Press TV/VIDEO (yellow labelled button) in PIP

Each time you press TV/VIDEO (yellow labelled button), "TV," "VIDEO 1," "VIDEO 2," and "VIDEO 3" or P&P mode to select the input mode. appear in sequence





A window/left picture will appear in the same input mode as the last time you used PIP

If you connect your VCR without a cable box, your PIP input source is a VCR. If you connect your VCR with a cable box, your PIP input source is a VCR or cable box.

## Listening to the sound of the window/ left picture

Swapping the main/right and window/

left pictures

## Press AUDIO in PIP or P&P mode.

The J display appears above the window/left picture for a few seconds, indicating that the window/left picture sound is being received.

from the main/right and window/left pictures switch

places with another,

Each time you press SWAP, the images and sound

Press SWAP in PIP or P&P mode.

The sound of the win picture is received.



To restore the main picture sound, press AUDIO again. The J display moves to the main picture channel

Note

• The channels being received through the AUX connector cannot be displayed as a window picture.

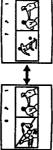
## Changing TV channels in the window/ left picture

Watching multiple TV channels at one time (CH INDEX)

You can display all the preset channels in sequence.

Press CH +/- (yellow labelied button) in PIP or P&P mode.





with a pink frame and 12 window pictures are

displayed around the main picture

The main picture is displayed in the center

Press CH INDEX.

## P S

## Changing the position of the window picture

## Press POSITION in PIP mode.

Each time you press POSITION, the window picture will move counterclockwise on the screen.





Press +, +, + or + to move the pink frame to the channel you want to watch, and press

Each time you press the CH IDEX button, the 12 window pictures will notate and a new picture

The selected channel appears on the screen.

To display eight favorite channels, press 🕀.

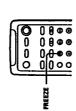
To return to the normal picture, press PIP OFF.

Operations | 25-EN

## Freezing the picture

(FREEZE)

The FREEZE feature is useful when you want to write down an information such as a recipe from a cooking program, a displayed address, or a phone number.



Press FREEZE.



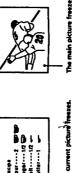
The frozen picture differs depending on the current display mode.



PIP mode

For example:
(1) To adjust the brightness, press \( \delta \) or \( \delta \) to move the cursor (\( \delta \)) to BRICHTINESS.

Select the item you want to adjust.





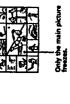


P&P mode

(2) Press (5)



263VL00





|   |   | 9        | Only the mai |
|---|---|----------|--------------|
| - | Ý | <u> </u> | ]            |

To cancel the frozen picture, press FREEZE again.

## Adjusting the

picture (video)



(1) Press +, +, +, or + to adjust the item.

4 Adjust the selected item:



The new setting appears in the VIDEO menu. (2) Press (-).



You can adjust the picture of video input(s) as well. When watching TV programs, you can adjust the

picture to suit your taste.

⊕ ⊕



For details on each item, see "Description of adjustable items" below.

## 5 To adjust other items, repeat steps 3 and 4.

Press MENU to return to the original screen.

Press + or + to select (iii), and press ←

Press MENU.

## Description of adjustable items

|           | Fress + Of + to                | Press + 01 + 10                                     |
|-----------|--------------------------------|---|
| PICTURE   | Decrease picture               | Increase picture                                    |
|           | contrast and give soft         | contrast and give                                   |
|           | color.                         | vivid color.  |
| HUE       | Make picture tones             | Make picture tones                                  |
|           | become purplish.               | become greenish.                                    |
| COLOR     | Decrease color intensity.      | Decrease color intensity. Increase color intensity. |
| BRICHTNES | SRIGHTNESS Darken the picture. | Brighten the picture.                               |
| SHARPNESS | SHARPNESS Soften the picture.  | Sharpen the picture.                                |

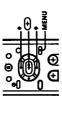
## To restore the factory settings

Press RESET after displaying and selecting the VIDEO

All of the settings are restored to the factory settings.

## temperature (TRINITONE) Adjusting the color

The TRINITONE feature controls the color temperature, permitting white balance preference adjustment without affecting skin tones.



- 1 Press MENU.
- 2 Press + or + to select ill and press .
- Press + or + to select TRINITONE and press













| To     | a cool (blush) white. | a neutral white. | a warm (reddish) white. |
|--------|-----------------------|------------------|-------------------------|
| Choose | HICH                  | MEDIUM           | NTSCSTD                 |

## Selecting the video mode (VIDEO)

different modes of picture settings. Choose the one that best suits the type of program that you want to watch. The video mode feature allows you to choose three

- Press MENU.
- Press + or + to select (II), and press (
- Press + or + to select MODE, and press .
- Press + or + to select STANDARD, MOVIE, or SPORTS mode, and press .





|      | 3 |  |
|------|---|--|
|      | Θ |  |
| -008 | 3 |  |
|      |   |  |





MOVIE

For example:

Press MENU to return to the original screen.

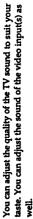
Note

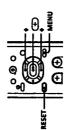
• The settings for these modes can be adjusted in the VIDEO menu.





### Adjusting the Sound (Audio)





For details on each item, see "Description of

adjustable items" below.

### 1 Press MENU.

2 Press + or + to select ½, and press ⊕.

6 Press MENU to return to the original screen. 5 To adjust other items, repeat steps 3 and 4.

Description of adjustable items







 To adjust bass, press + or + to move the cursor
 to BASS. 3 Select the Item you want to adjust.

Press RESET after displaying and selecting the AUDIO

To restore the factory settings

Emphasize the left Emphasize the nght speaker's volume. speaker's volume.

response.

BALANCE

All of the settings are restored to the factory settings.

### (2) Press ( ...



## (1) Press ♦, ♦, ♦, or ♦ to adjust the item. 4 Adjust the selected item:

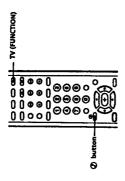
**Using audio effect** 

(EFFECT)



The new setting appears in the AUDIO menu.

(2) Press ⊕.



### Press TV (FUNCTION),

### Press @.

Increase the treble Press + or + to

Decrease the treble Decrease the bass

REBLE BASS

Press + or + to

Increase the bass

Each time you press the Øbutton, the display changes as follows:

SRS → SIMULATED → EFFECT OFF

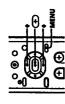


| 0      | When the program's audio signal is stereo or encoded, SIS6 expands the maternal and embraces you with dynamuc three-dimensional sound. | Recieve monaural sound with a surrond-like |
|--------|--|--|
| CHOOSE | SRS  | SIMULATED                                  |

When SPEAKER (page 31) is OFF and AUDIO OUT (page 32) is in the FIXED condition, the volume, TREBLE, BASS, and BALANCE cannot be adjusted.

Cancel audio effect EFFECT OFF

## Using the menu to set audio effect



- Press MENU.
- Press + or + to select J, and press . 2
- Press + or + to select EFFECT, and press m









4 Press + or + to select SRS, SIMULATED or OFF, and press ⊕.







Press MENU to return to the original screen. 'n

### bilingual programs Selecting stereo or (MTS)

to enjoy stereo sound or Second Audio Programs (SAP) of your choice. The initial setting is stereo sound The Multichannel TV Sound (MTS) feature allows you (STEREO).



## Press MTS repeatedly to select STEREO, SAP, or MONO.

STEREO →SAP → MONO

| 9     | Listen to stereo sound.  The STRRED indicator on the projection TV lights up when a stereo broadcast is received. | Listen to bilingual programs.  There is no sound when the SAP signal is not broadcasting. | Listen to monaural sound.<br>Reduce noise during stereo broadcasts. |
|-------|---|---|---|
| Goose | STEREO  | SAP   | MONO  |

Stereo and SAP sounds are subject to program sources.

## To set MTS using the menu

- 1 Press MENU.
- Press + or + to select 3, and press
- Press ♦ or ♦ to select MTS, and press ←.

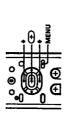
  Press ♦ or ♦ to select STEREO, SAP, or MONO.
- Press MENU to return to the original screen.

### E Setting the speaker **switch** (speaker)

You may switch off the projection TV speakers when, for example, you want to listen to the sound through a

can use the projection TV speakers as center speaker. After making the connection (page 12), set SPEAKER decoder to the CENTER SPEAKER IN terminals, you If you connect an amplifier with Dolby Pro Logic to CENTER.

woofer mode. After making the connections (page 13), set SPEAKER to SAVA SP, then adjust SURROUND MODE or SUPER WOOFER MODE. If you connect the Sony SAVA series speaker system to the AUDIO (VAR/FIX) OUT connectors, you can take advantage of the speakers' surround sound and super



- Press MENU.
- Z Press + or + to select ½, and press ⊕.
- Press + or + to select SPEAKER, and press m









Press + or + to select ON, OFF, CENTER or SAVA SP, and press 4





5 Press MENU to return to the original screen.

### Turn off the projection TV speaker sound and listen to the projection TV's sound through the Sony SAVA series speaker system. You can adjust Use the projection TV center speakers as the center speakers in another TV's sound solely through the audio Turn off the projection TV speake volume, muting, surround modes and super woofer mode with the remote control supplied with the Listen to the sound from the sound and listen to the pr surround audio system. system speaker. projection TV. SAVA SP GENTER 9000 NO

woofer mode of the SAVA speaker To select surround sound or super system

After setting SPEAKER to SAVA SP, follow the procedure below. Press + or + to select SURROUND MODE or For details on each option, refer to the operating SUPER WOOFER MODE, and press ( instructions of the speaker system.







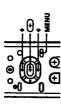
This feature is only for Sony SAVA speaker system with an operation capability for KP-48V45, KP-53V45, and KP-61V45.

## **Setting audio out**

(AUDIO OUT)

You can change AUDIO OUT to VARIABLE or FIXED when SPEAKER is set to OFF.

AUDIO OUT is variable when SPEAKER is set to ON.



- 1 Press MENU.
- 2 Press + or + to select J, and press ⊕.
- Press + or + to select AUDIO OUT, and press









Press + or + to select VARIABLE or FIXED, and press (







- FIXED: Sound output is always fixed to a certain level. The volume, bass, treble, and balance projection TV settings. You can adjust VARIABLE: Sound output varied according to the the volume, bass, treble, and balance.
  - are also fixed to the factory settings.

5 Press MENU to return to the original screen.

Note
- If AUDIO OUT appears in gray, set SPEAKER to OFF.

32-EN | Operations

## saving time (рауыснт Setting daylight

Setting the clock

(CURRENIT TIME SET)

SAVING)

If your area uses daylight saving time, change DAYLIGHT SAVING setting depending on the season, before setting the current time.

Setting the clock enables you to turn the projection TV on and off with the timer. Make sure to set daylight

saving time first.

**⊕** 

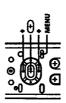
Press MENU.

### Daylight saving start

After the first Sunday in April, set DAYLIGHT column) automatically moves one hour ahead. SAVING to YES. Current time setting (right

### Daylight saving end

SAVING to NO. Current time setting automatically After the last Sunday in October, set DAYLIGHT moves one hour back.



### 1 Press MENU.

- Press + or + to select ∅, and press ⊕.
- Press + or + to select DAYLIGHT SAVING, and press









Ŋ

Press + or + to set the day of the week, and press

Set the current day of the week and time.



ė





|      | 3 |
|------|---|
|      | В |
| - 00 |   |
| _    |   |
| ( R  |   |

(2) Set the hour and minutes in the same way as in

step (1). When you press ( Tafter setting the

minutes, the clock starts.

| r daylight saving sta | laylight saving end |  |
|-----------------------|---------------------|--|
| tart.                 | nd.                 |  |

Press MENU to return to the original screen.

Ŋ

6 Press MENU to return to the original screen.

### Setting the timer to turn the projection TV on and off

(ON/OFF TIMER)

You can set the projection TV to turn on and off at the times you specify. Make sure the clock is set correctly. If it is not, set the clock first (left column). RESET-

- 1 Press MENU.
- 2 Press + or + to select ⊕, and press ⊕.
- Press + or + to select ONOFF TIMER, and press (

CUMBIT THE BET

Press + or + to select CURRENT TIME SET, 2 Press + or + to select ⊕, and press ⊕.

and press (



9







Press (+) and enter the ON/OFF TIMER setting. 4

CURRENT TAKE SET SUR TO GO AM CHESTE

Make sure the cursor (▶) is to the left of

4

"-:- AM," and press .

Press + or + to set the day(s), and press ⊕.

Each time you press ♦ or ♦, the days cycle as EVERY SUN-SAT → EVERY MON-FRI SUNDAY→...→SATURDAY→EVERY SUNDAY → ... → EVERY SATURDAY









Ser the larm.

Use ISS (2) East Co. All

Operations | 33-EN (continued)

that you want to turn on the projection TV, and (2) Press ♦ or ♦ to set the time (hour then minutes) press (







(3) Press ◆ or ◆ to set the time duration, and press

increases by one hour up to a maximum of six Each time you press 4, the time duration





(4) Press ◆ or ◆ to select the channel, and press ←





The TIMER indicator on the projection TV lights up.

- To set the other program, press (±), and repeat step 4. Ŋ
- Press MENU to return to the original screen.

message "TV will turn off soon." is displayed on the One minute before the projection TV turns off, the

In step 3 or 4, press RESET. To cancel the timer

If you unplug the projection TV or a power interruption occurs, the ON/OFF TIMER setting will be erased. Reset the current time, then set the timer.

### **Customizing the** channel names

(CHANNEL CAPTION)

Each time you press ♦ or ♦, the letter changes as

follows:

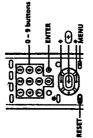
0...9---A...Z---&./..(blank space)

5 Enter the letters (up to four) to caption the

Press + or + to select the first letter.

channel:

You can add a caption for up to 12 channels. This feature allows you to easily identify which channel you are watching. You can make your own caption. (2) Press (-)



- 1 Press MENU.
- 2 Press + or + to select 色, and press ⊕.







3 Press + or + to select CHANNEL CAPTION,

appears green.

In step 5, press RESET. To erase a caption



and press .



channel that you want to caption, and Press and press + or + to select the press (

4







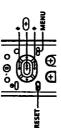


3

Can (10)

## Channel (CHANNEL BLOCK) **Blocking out a**

The channel block feature allows you to prevent children from watching unsuitable programs. You can block out two channels.



1 Press MENU.

Search for being

(3) Repeat steps (1) and (2) to select the remaining

letters, and press .

- 2 Press + or + to select 🖨, and press 🛨.
- 3 Press + or + to select CHANNEL BLOCK, and press (



Press MENU to return to the original screen.

Repeat steps 4 and 5 to caption other

channels.

ဖ

After you customize the channel, the channel caption





4 Press + or + to select program 1 or 2, and press (





5 Press + or + to select the channel which you want to block out, and press



If more than 90 seconds elapse after you press a button, the menu disappears automatically.
 The channel caption feature is not available for the AUX input

If the CHANNEL CAPTION menu appears in gray, the properion TV is set to a video input, and you cannot select CHANNEL CAPTION. Press TV (black button) so that a channel number appears.



6 Press MENU to return to the original screen. channel, the message "BLOCKED" When you select the blocked appears on the screen.

To cancel a CHANNEL BLOCK setting In step 4 or 5, press RESET.

Once you use CHANNEL BLOCK, Caption Vision and XDS of the blocked channel and the selected channel output from MONITOR OUT are also blocked out.

Operations | 35-EN

### favorite channels **Setting your**

(FAVORITE CHANNEL)

If you set to ÁUTO, the last eight channels you selected with the 0-9 buttons are automatically set as your The favorite channel feature allows your projection TV favorite channels. If you want to input your own to memorize your favorite channels easily. selection of channels, set to MANUAL.

## Setting your favorite channels



- Press MENU.
- 2 Press + or + to select 🖲, and press 🚓
- Press + or + to select FAVORITE CHANNEL and press .







Press (+) and press + or + to select AUTO or MANUAL, and press ⊕.

4





The last eight channels you selected with the 0-9 buttons are automatically set as your favorite If you select AUTO, skip steps 5 to 7.

numbers become white, indicating that favorite If you select MANUAL, the favorite channel

channels can be entered.

### 5 Press +, +, + or + to select a favorite channel number, and press .















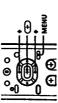
press (+).



- $oldsymbol{7}$  To set the other favorite channels, repeat steps 5 and 6.
- 8 Press MENU to return to the original screen.

- If more than 90 seconds elapse after you press another button, the menu disappears automatically.
- The favorite channel feature is not available for the AUX input.

## Selecting your favorite channel





the center with a pink frame and the eight favorite

channels are displayed around it.



2 Press +, +, + or + to move the pink frame to the channel you want to watch, and press

The selected channel appears on the screen.







## **Setting video labels** (VIDEO LABEL)

Each time you press + or +, the label changes as

VIDEO 1 --- VMS --- & mm --- BETA

VIDEO 1

OBS -- DVD -- S VIDEO -- LD

VIDEO 2 → VHS → 8 mm → BETA

VIDEO 2

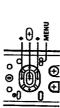
DBS -- DVD -- S VIDEO -- LD

VIDEO 3 ← VHS ← 8 mm ← BETA

VIDEO 3

→DBS → DVD → LD →

The video label feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 as VHS.



6 Repeat steps 4 and 5 to label other input

If more than 90 seconds elapse before you press another button, the menu disappears automatically.

- 1 Press MENU.
- 2 Press + or + to select 🖲, and press ⊕.
- Press + or + to select VIDEO LABEL, and press ( m











4

WORDS WORDS æ •••





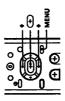




36-EN | Operations

### Vision (CAPTION VISION) **Setting Caption**

CC1, CC2, CC3, or CC4 shows you on-screen version of Some programs are broadcast with Caption Vision. To CC4, TEXT1, TEXT2, TEXT3, or TEXT4 from the menu. the dialogue or sound effects of a program. (The mode display Caption Vision, select either CC1, CC2, CC3, TEXT2, TEXT3, or TEXT4 shows you on-screen information presented using either half or the whole should be set to CC1 for most programs.) TEXT1, screen. It is not usually related to the program.



### Press MENU.

Press + or + to select [2], and press (+).







Press + or + to select the caption type, and press (+).

m





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|-------------------------|---|
| Secretary of the second |   |
|                         | ı |
|                         |   |
|                         |   |
|                         |   |

J

4 Press MENU to return to the original screen. To display Caption Vision Press DISPLAY (See page 23 for details)

- Poor reception of TV programs can cause errors in Caption Vision and XDS.
- Caphons may appear with a white box or other errors instead of a certain word.

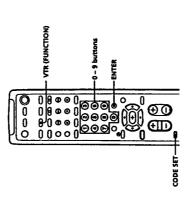
   XDS, Caption Vision, and the status display cannot be used at
  - - the same time For details on XDS, see page 23.

### 38-EN | Operations

### Operating video equipment

You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared remote sensor. For this operation, set the manufacturer's code number.

## Setting the manufacturer's code



Memorex Minolta Misubishi/MGA Multitech NEC

Press the CODE SET, VTR (FUNCTION), and 0 – 9 buttons to enter the manufacturer's code number (see the chart on page 39), then press For example, to operate a Sony 8 mm VCR, press CODE SET, VTR (FUNCTION), 3, 0, 2, and ENTER. ENTER.

Quasar RCA/PROSCAN

entax

Realistic

Sansui

Shuntom Signature 2000 (M. Wards) Sylvanua Symphonic Tashuro

## /CR manufacturer code numbers Manufacturer

Audio Dynamic Bell & Howell (M. Wards)

Craig Curts Mathis

Daewoo

MDP manufacturer code numbers

| Code number                     | Manufacturer Code nu   |
|---------------------------------|--|
| 301, 302, 303                   | Sony 701   |
| 338                             |  |
| 314, 337                        | Magnavox 703   |
| 330, 343                        | Maranz 702   |
| 319                             | Mitsubushi 702   |
| 309, 308                        | Panasonic 704  |
| 332                             |  |
| Š                               | ¥  |
| 3 6                             |  |
| 314, 336, 337                   |  |
| ì                               |  |
| 319, 320, 316, 317, 318         | Yamaha 703   |
| 330, 334, 335, 333              |  |
| 338                             | Notes  |
| 329, 304, 309                   | <ul> <li>If more than one code number is listed, try en</li> </ul> |
|                                 | by one, until you come to the correct code for                     |
| 306, 304, 305                   | <ul> <li>In some rare cases, you may not be able to op</li> </ul>  |
| 8                               | Sony video equipment with the supplied rem                         |
|                                 | is because your equipment may use a code th                        |
| 337                             | with this remote control. In this case, please u                   |
| 336, 337                        | _  |
| 336, 332, 337                   | <ul> <li>The code numbers for Sony equipment are as</li> </ul>     |
| 332, 305, 333, 334, 330,        | follows:   |
| 335                             | VHS VCR 301 (preset code for                                       |
| 308, 309                        |  |
| 314, 336, 337                   |  |
| 332                             |  |
| 309, 335                        | w nenever  |
| <b>.</b>                        | example — if too much time is taken, the code                      |
| 323, 324, 325, 326              | revert to the factory setting and must be reset                    |
| 325, 338, 321                   |  |
| ខ្លុំខ្លុំ                      |  |
| 309,300                         |  |
| ,                               |  |
| 308 308                         |  |
| 308 309                         |  |
| 308                             |  |
| 308 309                         |  |
|                                 |  |
| 313, 313, 308, 309, 311,        |  |
|                                 |  |
|                                 |  |
| 338                             |  |
| 215                             |  |
|                                 |  |
| 330 335                         |  |
| 312, 313, 321, 335, 323         |  |
| 325, 326,                       |  |
| ję                              |  |
| 315                             |  |
| 338.327                         |  |
| 308, 309, 338                   |  |
|                                 |  |
| 332                             |  |
| 336, 337                        |  |
| 314, 336, 338, 337              |  |
| 309, 308                        |  |
| 312, 311<br>377 378 335 331 323 |  |
| 330, 314, 336, 337              |  |
| 331                             |  |
|                                 |  |

General Electric

Goldstar

Hitachi Instant Replay

C Penny

LXI (Sears) Magnavox

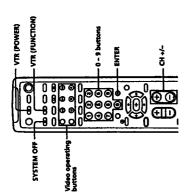
- by one, until you come to the correct code for your equipment.

  In some rare cases, you may not be able to operate your nonSony video equipment with the supplied remote control. This
  is because your equipment may use a code that is not included
  with this remote control. In this case, please use the If more than one code number is listed, try entering them one
  - equipment's own remote control unu.
    The code numbers for Sony equipment are assigned at the factory as follows:

    301 (preset code for the summland VHS VCR
    - remote control) ខ្លួន Beta, ED Beta VCRs 8 mm VCR
- Whenever you remove the batteries to replace them, for example if too much tune is taken, the code number may revert to the factory setting and must be reset.

### Operations | 39-EN

## Operating video equipment



Use the video operating buttons on the remote control to operate the video equipment. Press VTR (FUNCTION) before operating the video equipment.

| Orserating a VCR             | Buttons on the remote control                          |
|------------------------------|--|
| To turn on or off            | Press VTR (POWER).                                     |
| To select a channel directly | Press the 0 - 9 buttons.                               |
| To change channels           | Press CH +/  |
| To record                    | Press > whule pressing • First release then release •. |
| To play                      | Press ▶.   |
| To stop                      | Press E.   |
| To fast forward              | Press FF.  |
| To rewind the tape           | Pres 4.  |
| To pause                     | Press III.   |
|                              | To resume normal playback, press again.                |
| To search the pacture        | Press PV or 44 during playback.                        |
| forward or backward          | To resume normal playback, release the                 |
|                              | outton.  |
| To change input mode         | Press TV/VTR.  |
|                              |  |

| Operating an MDP                             | Buttons on the remote control  |
|--|--|
| To turn on or off                            | Press VTR (POWER).   |
| To play                                      | Press .  |
| To stop                                      | Press 2.   |
| To pause                                     | Press 88.<br>To resume normal playback, press again.                                     |
| To search the pacture<br>forward or backward | Keep pressing P-P or 4-4 during playback. To resume normal playback, release the button. |
| To search the chapter forward and backward   | Press CH +/  |

| Operating an DVD     | Buttons on the remote control          |
|----------------------|--|
| To turn on or off    | Press VTR (POWER)                      |
| To play              | Press 💌                                |
| To stop              | Press                                  |
| To pause             | Press #                                |
| •                    | To resume normal playback, press again |
| To serch the picture | Keep pressing ▶▶ or ◆◆ during          |
| forward or backward  | playback                               |
|                      | To resume normal playback, release the |
|                      | hutton                                 |

If the video equipment does not have a certain function, the corresponding button on this remote control will not operate

## Turning off the system

You can turn off the projection TV and Sony equipment with the S-Link function, such as a VCR together when you make the S-Link connection (see page 14 for the connection).

### Press SYSTEM OFF.



## box or DBS receiver Operating a cable

procedures below to set the manufacturer's code number in the remote control. You can program the supplied remote control to operate a cable box or DBS receiver. Follow the

| — DBS/CABLE (POWER) | DBS/CABLE | (FUNCTION) |   |         |      |       |             | -0 - 9 buttons |             | -ENTER | -dube- | () | MENC | į      | ÷ 5 1   |          |       |
|---------------------|-----------|------------|---|---------|------|-------|-------------|----------------|-------------|--------|--------|----|------|--------|---------|----------|-------|
|                     |           | 0000       | 0 | 9 9 9 0 | 0000 | 0000  | ම<br>ම<br>ල | 000            | 0<br>0<br>0 | 0      |        |    | -    | ⊕<br>Đ | 0<br>Ti |          | _<br> |
|                     |           |            |   |         | -    | ייאלא |             |                |             | - dwnr | -580/2 |    |      |        |         | Cohe Get |       |

- The TV/DBS, GUIDE, DISPLAY, +/+/+/ (+), and MENU buttons can be used only with a DBS receiver.
- 1 Turn off the equipment you want to set up, and press DBS/CABLE (FUNCTION).

|   | DBS/CABLE | ၉ | Ę | フ |
|---|-----------|---|---|---|
| Ī | _         |   |   |   |

2 Press the CODE SET, DBS/CABLE (FUNCTION), manufacturer's code number (see the chart on the right column), then press ENTER. For to operate a Sony DBS receiver, press CODE example, to program your remote control SET, DBS/CABLE (FUNCTION), 8, 0, 1, and and 0 - 9 buttons to enter the

| <del>-</del> |
|--------------|
| ÷<br>÷       |
| •€           |
|              |
| i +          |

## 3 Press DBS/CABLE (POWER) to turn on the cable box or DBS receiver.



### For example, to operate a cable box or DBS receiver, you can use the DBS/CABLE (POWER), JUMP, CH 4 Use the cable box/DBS control buttons to check if the code number works. +/-, 0-9 and ENTER buttons

 If the cable box or DBS receiver does not have a certain function, the corresponding button on this remote control will not operate.

To operate the projection TV
Press TV (FUNCTION). Then use the projection TV
control buttons to control the projection TV.

## For more details on operating the cable box or **DBS** receiver

Refer to the operating instructions that come with the equipment.

If the remote control doesn't work

• Furt, by repeating the setup procedures using the other codes listed for your equipment.

| Manufacturer co  | Manufacturer code numbers (cable box)          |
|------------------|--|
| Manufacturer     | Code number                                    |
| Hamlm/Regal      | 222, 223, 224, 225, 226                        |
| Jerrold/G. I.    | 201, 202, 203, 204, 205, 206, 207, 208,<br>218 |
| Oak              | 227, 228, 229                                  |
| Panasonuc        | 219, 220, 221                                  |
| Pioneer          | 214, 215                                       |
| Soenbfic Atlanta | 209, 210, 211                                  |
| Tocom            | 216, 217                                       |
| Zenith           | 212, 213                                       |

## Manufacturer code numbers (DBS receiver) Manufacturer

| 801 (preset code for the supplied | 802 |
|-----------------------------------|-----|
| Sony                              | RCA |

### Notes

- If more than one code number is listed, try entering them one
- by one until you come to the correct code for your equipment.

  I you enter a new onde mumber, the code number you previously entered at that setting is erased.

  I is some rare cases, your equipment may use a code that is not provided with thus remote control and you may not be able to operate your equipment's own remote control until.

  Whenever you us monove the batteries to replace them, for example if too much time is taken, the code numbers may revert to the factory setting and must be resed

40-EN | Operations

Operations | 41-EN

## Additional Information

## **Troubleshooting**

If the problem persists after trying the methods below, contact your nearest Sony dealer.

No picture (screen not lit), no sound

Make sure the power cord is connected

securely.
 Operate with the buttons on the projection TV.
 Insert the batteries in the remote control with the correct polarity.
 Replace the batteries with new ones if they are

when watching TV, set to TV, and when watching video tapes, set to VIDEO1, 2, or 3.

Try another channel. It could be station trouble.

Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 17)

Poor or no picture (screen lit), good sound

→ Adjust PICTURE in the VIDEO menu. (page 26)

→ Adjust BRIGHTNESS in the VIDEO menu.
(page 26)

→ Adjust convergence. (page 19)

→ Check attentary cable connections. (page 6)

→ Perform AUTO SET UP again uning the SETUP button to return to the factory preset condition.

Remove objects from the front of the projection TV. (page 17)

Good picture, no sound

→ Press MUTING so that "MUTING" disappears
from the screen (page 22)

→ Check the MTS setting in the AUDIO menu.
(page 30)

→ Make sure SPEAKER is set to ON in the AUDIO

menu. (page 31)

Perform AUTO SET UP again using the SETUP
button to return to the factory preset condition.
(page 17)

No color

→ Adjust the COLOR in the VIDEO menu. (page

→ Confirm that black and white program is not

being broadcast.
 Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 17)

Only snow and noise appear on the screen

-> Check the CABLE setting in the SET UP menu.
(page 20)

-> Check the anterna/cable connections. (page 6)

-> Make sure the channel is broadcasting

programs.

-- Press TV (black button) to change the input

Dotted lines or stripes

mode. (page 23)

Adjust the antenna.
 Move the projection TV away from noise sources such as cars, neon signs, and hair-

dryers.

Double images or ghosts

- Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

correctly.
Check the CABLE setting in the SET UP menu.
(page 20)

Cannot receive upper channels (UHF) when using an

→ Make sure CABLE is OFF in the SET UP menu.

channels that are not presently in projection TV memory. (pages 17, 21) (page 20)

→ Use AUTO PROGRAM to add receivable

Cannot receive any channels when using cable TV

→ Make sure CABLE is ON in the SET UP menu.

(page 20)

- Use AUTO PROGRAM to add receivable channels that are not presently in projection TV memory. (pages 17, 21)

Remote control does not operate

- Baternes could be weak. Replace the battenes.

(page 16)

- Make sure the projection TV's power cord is

connected securely to the wall outlet.

- Fress TV (EUNCTION) when operating your
projection TV.

- Are fluorescent lights too close to the projection
TV? Move them at least 3-4 feet away from the
projection TV.

Cennot gain enough volume when using a cable box

— Increase the volume at the cable box. Then press
TV (FUNCTION) and adjust the projection TV's

Projection TV maifunctions when using the S-Link function

→ Make sure the projection TV's power cord is connected securely to the wall outlet.

→ Check the 5-Link connection. (page 14)

The projection TV needs to be cleaned

— Clean the projection TV with a soft dry cloth.

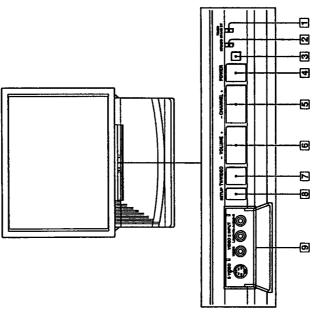
P Clean the projection TV with a soft dry cloth.

bervaine, which might damage the finish of the

### Index to parts and controls

This section briefly describes the buttons and controls on the projection TV and on the remote control. For more information, refer to the pages next to each

## Projection TV — Front



TIMER/STANDBY indicator (pages 22, 34)

Remote sensor

STEREO indicator (page 30)

0

<u>ක</u> අ

POWER switch (page 17)

CHANNEL +/- buttons (page 17)

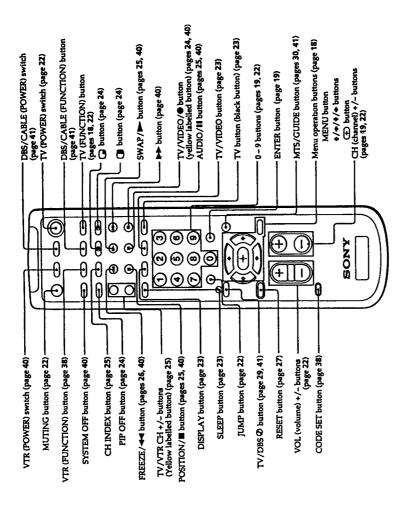
⑤ VOLUME +/- buttons (page 17)

TV/VIDEO button (page 17, 18)

SETUP button (page 17) **60** 

S VIDEO/VIDEO 2 INPUT (VIDEO/AUDIO L(MONO)/R) jacks (page 10) 6

44-EN | Additional Information

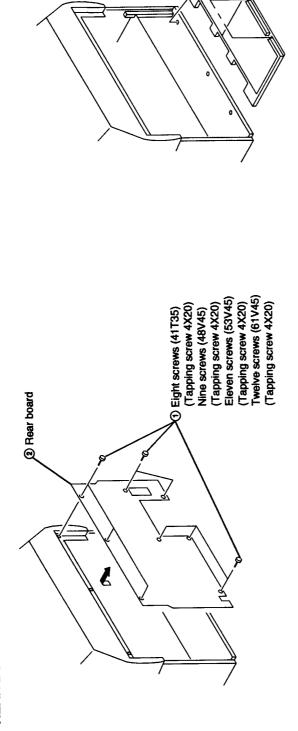


## **SECTION 2**

## DISASSEMBLY

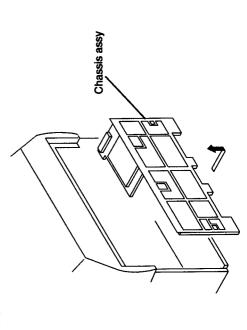
2-2. CHASSIS ASSY REMOVAL

# 2-1. REAR BOARD REMOVAL



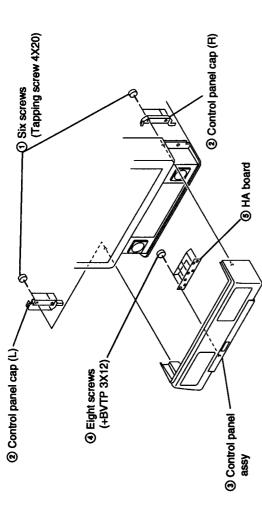
① Three screws (Head tapping screw 4X20)

## 2-3. SERVICE POSITION

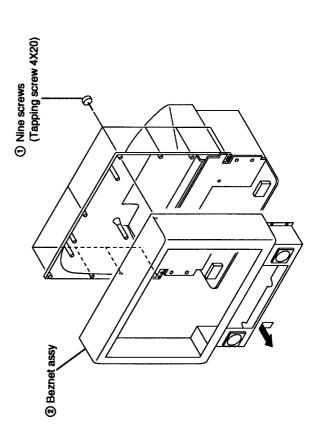


Chassis assy

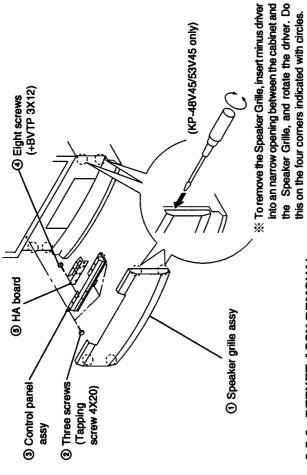
### 2-4-1. HA BOARD REMOVAL (KP-41T35)



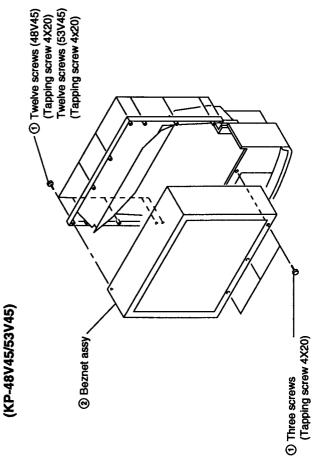
2-5-1. BEZNET ASSY REMOVAL (KP-41T35)



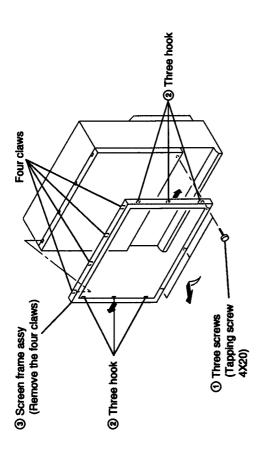
## 2-4-2. HA BOARD REMOVAL (KP-48V45/53V45/61V45)



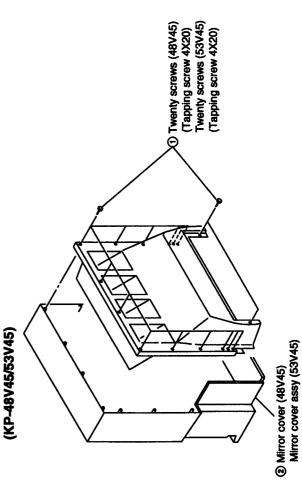
## 2-5-2. BEZNET ASSY REMOVAL



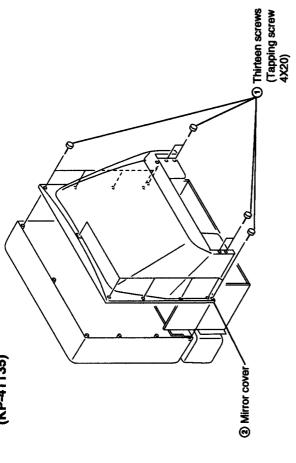
# 2-5-3. SCREEN FRAME ASSY REMOVAL (KP-61V45)



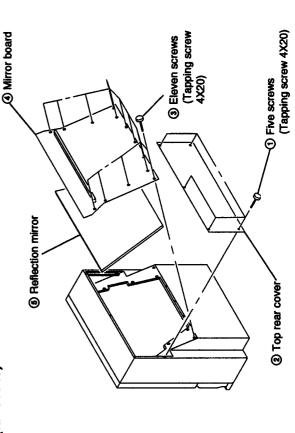
# 2-6-2. MIRROR COVER ASSY REMOVAL



# 2-6-1. MIRROR COVER ASSY REMOVAL (KP-41T35)

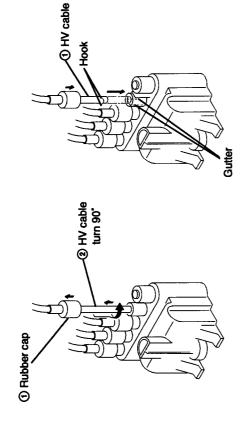


# 2-6-3. REFLECTION MIRROR REMOVAL (KP-61V45)



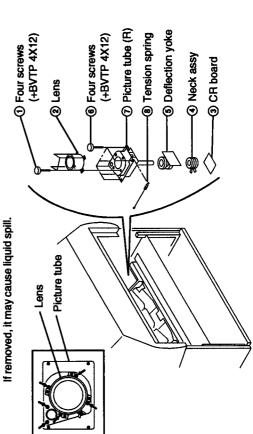
# 2-7. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

(1) Remover (2) Installation



## 2-8-2. PICTURE TUBE REMOVAL (KP-48V45/53V45/61V45)

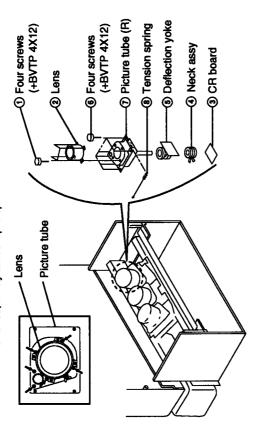
CAUTION: Removing the arrow-marked screws is strictly prohibited.



## 2-8-1. PICTURE TUBE REMOVAL (KP-41T35)

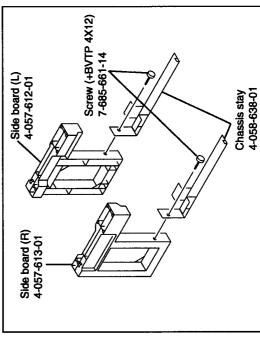
CAUTION: Removing the arrow-marked screws is strictly prohibited.

If removed, it may cause liquid spill.

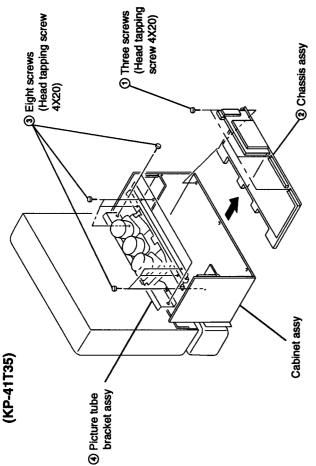


# 2-9-1. SERVICE STAY ASSY HOW TO USE AND CARRY BACK SERVICE STAY ASSY

SERVICE STAY ASSY



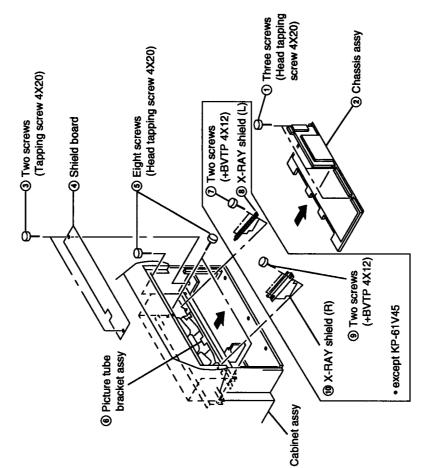
# 2-9-2. PICTURE TUBE BRACKET ASSY REMOVAL



- 1) Remove ① three screws (head tapping screw 4X20) and pull out ② chassis assy from cabinet
- 2) Remove 3 eight screws (head tapping screw 4X20) and release 4 picture tube bracket assy from cabinet assy.

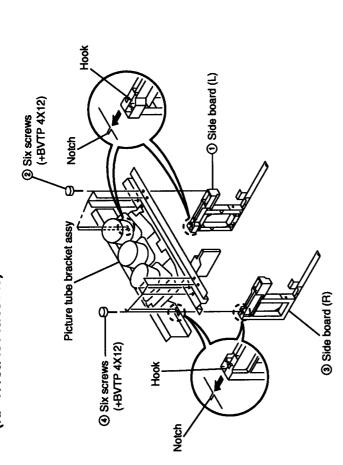
## 2-9-3. PICTURE TUBE BRACKET ASSY REMOVAL (KP-48V45/53V45/61V45)

- Disassemble HA board and speaker cord.
- Disassemble all the harness from purse lock.



- 1) Remove ① three screws (head tapping screw 4X20) and pull out ② chassis assy from cabinet
- 2) Remove (3) two screws (tapping screw 4X20) and remove (4) shield board.
  3) Remove (3) eight screws (head tapping screw 4X20) and release (6) picture tube bracket assy from cabinet assy.
- 4) Remove ③ two screws (+BVTP 4X12) and remove ⑥ X-RAY shield (L). 5) Remove ⑥ two screws (+BVTP 4X12) and remove ⑩ X-RAY shield (R).
  - except KP-61V45

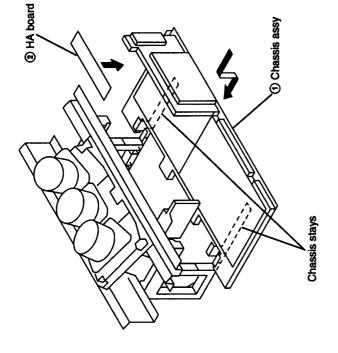
## 2-9-4. SETTING OF SERVICE STAY ASSY. (KP-41T35/48V45/53V45)



- 1) Lift up picture tube bracket assy and fit the hook of ① side board (L) to the notch on the assy.
- Then fix then with ② six screws (+BVTP 4X12).

  2) Lift up picture tube bracket assy and fit the hook of ③ side board (R) to the notch on the assy. Then fix then with ④ six screws (+BVTP 4X12).

## 2-9-5. INSTALL A CHASSIS ASSY



- Put ① chassis assy on chassis stays.
   Put ② HA board on ① chassis assy.
   Put HV bracket on ① chassis assy. (KP-41T35 only)
   You can carry the chassis assy in this condition.

## SECTION 3 SET-UP ADJUSTMENTS

| ADJUSTMENT ITEM AND PROCEDURE  | EQUIPMENT<br>AND SIGNAL | MEASUREMENT<br>POSITION | ADJUSTMENT                | ILLUSTRATION AND SHAPE<br>AND NUMBER |
|--|-------------------------|-------------------------|---------------------------|--------------------------------------|
| SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)  1. Turn the red VR on the FOCUS block all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.  2. Next gradually turn it to the left to the position where the retrace line disappears.   | Monoscope<br>Pattern    |                         | PICTUREminimum BRIGHTNESS | Tens                                 |
| 1. Loosen the lens screw. 2. Set in service mode. 3. Use VP on the service mode menu to show only the green colour. 4. Press the Commander Menu button and select FEATURES and CONVERGENCE to display the test signal on the screen. 5. Rotate the green lens and align with the optimal focus point from the test signal. 6. Use RG-RH from the service mode menu to set to green and red.                              |                         |                         |                           | CONVERGENCE                          |
| <ol> <li>Disply the test signal and rotate the red lens to obtain the optimum focus at the point where the red and green spots overlap.</li> <li>Use RG-BH from the service mode menu to set to red and blue.</li> <li>Disply the test signal and rotate the blue lens to obtain the optimum focus at the point where the blue and red spots overlap.</li> <li>Tighten the lens screw.</li> </ol> SCREEN (G2) ADJUSTMENT |                         |                         |                           | G2 JIG                               |
| <ol> <li>Select VIDEO mode without signals.</li> <li>Connect the G2 JIG between TP732 (200V) and TP733 (GND) on the CG Board.</li> <li>Connect an oscilloscope to the TP701 (KR), TP731 (KG) and TP761 (KB) of CR board, CG board and CB board.</li> <li>Adjust 170~173V (KR, KG, KB)</li> <li>by rotating screen VR on the focus block.</li> </ol>  |                         |                         |                           | GND (KR, KG, KB)                     |

| ILLUSTRATION AND SHAPE<br>AND NUMBER | Schming har visible  FOCUS block  Scanning har visible  Affinimze both A and B.   | 4-pole magnet (Red and Green CRT only)  Apole magnet (Red and Green CRT only)  Deflection yoke   |
|--------------------------------------|---|--|
| ADJUSTMENT<br>LOCATION               |   |  |
| MEASUREMENT<br>POSITION              |   |  |
| EQUIPMENT<br>AND SIGNAL              |   | Monoscope  |
| ADJUSTMENT ITEM AND PROCEDURE        | FOCUS VR ADJUSTMENT  1. Set in service mode.  2. Use VP on the service mode menu to show only the green colour.  3. Press the Commander Menu button (convergence) and output the test signal.  4. Rotate the green VR on the FOCUS block and align to obtain the optimal focus point.  5. Use RG-RH from the service mode menu to set to green and red.  6. Disply the test signal and rotate the red VR to obtain the optimum focus at the point where the red and green spots overlap.  7. Use RG-BH from the service mode menu to set to red and blue.  8. Disply the test signal and rotate the blue VR aligning to obtain the optimum focus at the point where the blue and green spots overlap. | <ol> <li>DEFLECTION YOKE TILT ADJUSTMENT</li> <li>Set in service mode.</li> <li>Set to receive the monoscope signal.</li> <li>Use VP on the service mode menu to show only the green colour.</li> <li>Loosen the deflection yoke set screw and align the tilt of the deflection yoke so that the bars at the centre of the monoscope pattern are horizontal.</li> <li>After aligning the deflection yoke, fasten it securely to the funnelshaped portion (neck) of the CRT.</li> <li>The tilt of the deflection yoke for red is aligned with RG-RH on the service mode menu, and the tilt on the deflection yoke for blue is aligned with RG-BH on the service menu, is aligned the same as was done for green.</li> </ol> |

| ADJUSTMENT ITEM AND PROCEDURE  | EQUIPMENT<br>AND SIGNAL | MEASUREMENT<br>POSITION | ADJUSTMENT<br>LOCATION | ILLUSTRATION AND SHAPE<br>AND NUMBER  |
|--|-------------------------|-------------------------|------------------------|---------------------------------------|
| 1. Set in Service mode. 2. Set to receive the dot pattern signal.  | Dot pattern             |                         | 2-pole magnet          | Use the center dot                    |
| <ul> <li>5. Flace the caps on the red and blue lens so that only the green color is shown.</li> <li>4. Turn the green VR on the focus block to the right and set to overfocus to enlarge the spot.</li> <li>5. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the Just Focus spot.</li> <li>6. Align the green focus VR and set for just (precise) focus.</li> <li>7. Perform the same alignment for red and blue.</li> </ul> |                         |                         |                        |                                       |
| <ol> <li>4-POLE MAGNET ADJUSTMENT</li> <li>Set in service mode.</li> <li>Set to receive the dot pattern signal.</li> <li>Remove CN302 connector for A board.</li> <li>Place the cans on the red and blue lens so that only the oreen.</li> </ol>   | Dot pattern             |                         | 4-pole magnet          | Use the center dot                    |
| color is shown.  5. Turn the green VR on the focus block to the left and set to underfocus to enlarge the spot.  6. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle.  |                         |                         |                        | X X X X X X X X X X X X X X X X X X X |
| DEFOCUS ADJUSTMENT  1. Receive the crosshatch signal.  2. Adjust the FOCUS knob so that the crosshatch pattern vertical line width is as in the figure on the right.  3. Blue only defocus Adjustment.   | Dot pattern             |                         | FOCUS VR • RED • GREEN | • Focus adjustment point              |
|  |                         |                         |                        | 41*<br>:9-11mm<br>without flare       |

# **ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER**

By using Remote Commander (RM-Y136A/RM-Y901), all circuit adjustments can be

## NOTE: Test Equipment Required.

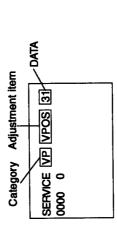
- 1. Pattern Generator
- 2. Frequency counter
- 3. Digital multimeter
  - 4. Audio oscillator

# 1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

## SERVICE MODE PROCEDURE

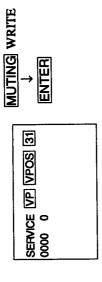
- 1. Standby mode. (Power off)
  2.  $\overline{DISPLAY} \rightarrow \overline{\{5\}} \rightarrow \overline{VOL(+)} \rightarrow \overline{TV POWER}$  on the Remote Commander.
- (Press each button within a second.) + 2 + +

## SERVICE MODE ADJUSTMENT



- 3. The CRT displays the item being adjusted.
- 4. Press 1 or 4 on the Remote Commander to select the adjustment item. 5. Press 3 or 6 on the Remote Commander to change the data.
- 7. If you want to recover the latest values press 7 then ENTER to read the memory. 6. Press 2 or 5 on the Remote Commander to select the category.
  - 8. Press MUTING then ENTER to write into memory.

## SERVICE ADJUSTMENT MODE MEMORY



- 8. Press B then ENTER on the Remote Commander to initialize.
- 9. Turn set off and on to exit.

# 2. MEMORY WRITE CONFIRMATION METHOD

- 1. After adjustment, remove the plug from AC outlet, and then replace the plug in AC outlet again.
  - Turn the power switch ON and set to Service Mode.
     Call the adjusted items again and confirm they were adjusted.

## 4. SERVICE MODE LIST

| ^ |
|---|
|   |
| • |
| _ |
|   |
|   |
|   |

|          | Adiustment | Standard | Data  |                        |
|----------|------------|----------|-------|------------------------|
| Category | item       | data     | range | Note                   |
| ďΑ       | VPOS       |          | 0-63  | V SHIFT                |
| ·        | VSIZ       |          | 0-63  | v size                 |
|          | VCOM       | 0        | 0-3   | HV-COMP-V              |
|          | VILIN      | 7        | 0-15  | v Lin                  |
|          | vsco       | 7        | 0-15  | S CORRECTION           |
|          | HPOS       | 7        | 0-15  | H SHIFT                |
|          | HSIZ       |          | 0-63  | H SIZE                 |
|          | PAMP       |          | 0-63  | PIN AMP                |
|          | UPIN       | 7        | 0-15  | UPPER CORNER PIN       |
|          | LPIN       | 7        | 0-15  | LOWER CORNER PIN       |
|          | PPHA       | 7        | 0-15  | H TRAPEZOID            |
|          | AFC        | 7        | 0-3   | AFC LOOP GAIN          |
|          | VBOW       | 7        | 0-15  | V BOW                  |
|          | VANG       | 7        | 0-15  | v Angle                |
|          | REF        | 3        | 0-3   | AKB REFERENCE          |
|          | GDRV       |          | 0-63  | GREEN DRIVE            |
|          | BDRV       |          | 0-63  | BLUE DRIVE             |
|          | GCUT       |          | 0-15  | GREEN CUT OFF          |
|          | BCUT       |          | 0-15  | BLUE CUT OFF           |
|          | SCON       |          | 0-15  | SUB CONTRAST           |
|          | SHUE       |          | 0-15  | SUB HUE                |
|          | SCOL       |          | 0-15  | SUB COLOR              |
|          | SBRT       |          | 0-63  | SUB BRIGHTNESS         |
|          | SSHP       | 7        | 0-15  | SUB SHARPNESS          |
|          | GMMA       | -        | 0-3   | GAMMA LEVEL            |
|          | CDM2       | 0        | 0,1   | COUNT DOWN MODE 2      |
|          | DPIX       | -        | 0,1   | DYNAMIC PICTURE        |
|          | Y-DC       | -        | 0,1   | DC TRANSMISSION RATIO  |
|          | ABLM       | -        | 0,1   | ABL MODE               |
|          | AXIS       | 0        | 0,1   | R-Y, G-Y AXIS          |
|          | NOTC       | 0        | 0,1   | CTRAP                  |
|          | CROM       | 7        | 0-15  | C TRAP FO              |
|          | TOT        | 0        | 0,1   | C TOT FILTER           |
|          | PREL       | 3        | 0-3   | PRE/OVER LEVEL         |
|          | SHPF       | 3        | 0-3   | SHARPNESS F0           |
|          | RON        |          | 0,1   | RED ON/OFF             |
|          | NOD        |          | 0,1   | GREEN ON/OFF           |
|          | BON        |          | 0,1   | BLUE ON/OFF            |
|          | DCOL       |          | 0,1   | DYNAMIC COLOR          |
|          | CDMD       | 0        | 0,1   | V COUNT DOWN           |
|          | LBLK       | 13       | 0-15  | H BLK WIDTH LEFT SIDE  |
|          | RBLK       | 13       | 0-15  | H BLK WIDTH RIGHT SIDE |

| TV POWER ON  TWATH FIEZE SIMP PP  THE CONTRIBUTION  THE CONTRIBUTI | Data up  1 2 3  4 5 6  4 5 6                    | RM-Y136A (KP-41T35) |        |   |
|--|---|---------------------|--------|---|
| MUTING   | DISPLAY Adjustment item up Adjustment item down |                     | MUTING | DISPLAY Adjustment item up Adjustment item down |

RM-Y901 (except KP-41T35)

AP

|           |            | ć        |      |           |                       |
|-----------|------------|----------|------|-----------|-----------------------|
| Category  | Adjustment | Suamoaro | p s  | Data      | Note                  |
|           | item       | 41T      | >    | range     |                       |
| AP.       | SVOL       | ٥        | ٥    | 0-15      | SUB VOLUME            |
| !         | SBAL       | ,        |      | 0-15      | SUB BLANCE            |
|           | SBAS       | 6        | 7    | 0-15      | SUB BASS              |
|           | STRE       | 6        | 7    | 0-15      | SUB TREBLE            |
| RG        |            |          |      |           |                       |
| į         | Adjustment | Standard | lard | Data      | Z                     |
| Callegory | item       | data     | , g  | range     | Note                  |
| RG        | GH CENT    |          |      | -127-+127 | GREEN H SENT          |
|           | GH SKEW    |          |      | -127-+127 | GREEN H SKEW          |
|           | GH BOW     |          |      | -127-+127 | GREEN H BOW           |
|           | GH 4BOW    |          |      | -127-+127 | GREEN H 4TH BOW       |
|           | GH SIZE    |          |      | -127-+127 | GREEN H SIZE          |
|           | CHTIN      |          |      | -127-+127 | GREEN H LINEARITY     |
|           | GH MSIZ    |          |      | -127-+127 | GREEN H MID SIZE      |
|           | GH MILIN   |          |      | -127-+127 | GREEN H MID LINEARITY |
|           | GH KEY     |          |      | -127-+127 | GREEN H KEY           |
|           | GH SSKW    |          |      | -127-+127 | GREEN H SUB SKEW      |
|           | GH MPIN    |          |      | -127-+127 | GREEN H MID PIN       |
|           | GH PIN     |          |      | -127-+127 | GREEN H PIN           |
|           | GH SBOW    |          |      | -127-+127 | GREEN H SUB BOW       |
|           | GH MBOW    | _        |      | -127-+127 | GREEN H MID BOW       |
|           | GH 4PIN    |          |      | -127-+127 | GREEN H 4TH PIN       |
|           | GH 4SBO    |          |      | -127-+127 | GREEN H 4TH SUB BOW   |
|           | GV CENT    |          |      | -127-+127 | GREEN V CENT          |
|           | GV SKEW    |          |      | -127-+127 | GREEN V SKEW          |
|           | GV BOW     |          |      | -127-+127 | GREEN V BOW           |
|           | GV SIZE    |          |      | -127-+127 | GREEN V SIZE          |
|           | GV LIN     |          |      | -127+127  | GREEN V LINEARITY     |
|           | GV MSIZ    |          |      | -127-+127 | GREEN V MID SIZE      |
|           | GV MKEY    |          |      | -127-+127 | GREEN V MID KEY       |
|           | GV KEY     |          |      | -127-+127 | GREEN V KEY           |
|           | GV SSKW    |          |      | -127-+127 | GREEN V SUB SKEW      |
|           | GV MPIN    |          |      | -127-+127 | GREEN V MID PIN       |
|           | GV PIN     |          |      | -127-+127 | GREEN V PIN           |
|           | GV SBOW    |          |      | -127-+127 | GREEN V SUB BOW       |
|           | GV WAVE    |          |      | -127-+127 | GREEN V WAVE          |
|           | GV 4PIN    |          |      | -127-+127 | GREEN V 4TH PIN       |
|           | RH CENT    |          |      | -95-+96   | RED H CENT            |
|           | RH SKEW    |          |      | -127-+127 | RED H SKEW            |
|           | RH BOW     |          |      | -127-+127 | RED H BOW             |

| Note               | RED H 4TH BOW | RED H SIZE | RED H LINEARITY | RED H MID SIZE | RED H MID LINEARITY | RED H KEY | RED H SUB SKEW | RED H MID PIN | RED H PIN | RED H SUB BOW | RED H MID BOW | RED H 4TH PIN | RED H 4TH SUB BOW | RED V CEVT | RED V SKEW     | RED V BOW | RED V SIZE     | RED V LINEARITY | RED V MID SIZE | RED V MID KEY  | RED V KEY     | RED V SUB SKEW | RED V MID PIN  | RED V PIN | RED V SUB BOW | RED V WAVE | RED V 4TH PIN  | RED V WING | BLUE H CENT | BLUE H SKEW | BLUE H BOW | BLUE H 4TH BOW | BLUE H SIZE | BLUE H LINEARITY | BLUE H MID SIZE | BLUE H MID LINEARITY | BLUE H KEY | BLUE H SUB SKEW | BLUE H MID PIN | BLUE H PIN | BLUE H SUB BOW | BLUE H MID BOW |
|--------------------|---------------|------------|-----------------|----------------|---------------------|-----------|----------------|---------------|-----------|---------------|---------------|---------------|-------------------|------------|----------------|-----------|----------------|-----------------|----------------|----------------|---------------|----------------|----------------|-----------|---------------|------------|----------------|------------|-------------|-------------|------------|----------------|-------------|------------------|-----------------|----------------------|------------|-----------------|----------------|------------|----------------|----------------|
| Data               | -127-+127     | -127-+127  | -127-+127       | -127-+127      | -127-+127           | -127-+127 | -127-+127      | -127-+127     | -127-+127 | -127-+127     | -127-+127     | -127-+127     | -127-+127         | -95-+96    | -127-+127      | -127-+127 | -127-+127      | -127-+127       | -127-+127      | -127-+127      | -127-+127     | -127-+127      | -127-+127      | -127-+127 | -127-+127     | -127-+127  | -127-+127      | -31-+32    | 96+-56-     | -127-+127   | -127-+127  | -127-+127      | -127-+127   | -127-+127        | -127-+127       | -127-+127            | -127-+127  | -127-+127       | -127-+127      | -127-+127  | -127-+127      | -127-+127      |
| Standard<br>data   |               |            |                 |                |                     |           |                |               |           |               |               |               |                   |            |                |           |                |                 |                |                |               |                |                |           |               |            |                |            |             |             |            |                |             |                  |                 |                      |            |                 |                |            |                |                |
| Adjustment<br>item | RH 4BOW       | RH SIZE    | RH LIN          | RH MSIZ        | RH MLIN             | RH KEY    | RH SSKW        | RH MPIN       | RH PIN    | RH SBOW       | RH MBOW       | RH 4PIN       | RH 4SBO           | RV CENT    | <b>RV SKEW</b> | RV BOW    | <b>RV SIZE</b> | RV LIN          | <b>RV MSIZ</b> | <b>RV MKEY</b> | <b>RV KEY</b> | RV SSKW        | <b>RV MPIN</b> | RV PIN    | RV SBOW       | RV WAVE    | <b>RV 4PIN</b> | RV WING    | BH CENT     | BH SKEW     | BH BOW     | BH 4BOW        | BH SIZE     | BHI              | BH MSIZ         | BH MLIN              | BH KEY     | BH SSKW         | BH MPIN        | BH PIN     | BH SBOW        | вн мвом        |
| Category           | RG            |            |                 |                |                     |           |                |               |           |               |               |               |                   |            |                |           |                |                 |                |                |               |                |                |           |               |            |                |            |             |             |            |                |             |                  |                 |                      |            |                 | -              |            |                |                |
|                    |               |            |                 |                |                     |           |                |               |           |               |               |               |                   |            |                |           |                |                 |                |                |               |                |                |           |               |            |                |            |             |             |            |                |             |                  |                 |                      |            |                 |                |            |                |                |
|                    |               |            |                 |                |                     |           |                |               |           |               |               |               |                   |            |                |           |                |                 |                |                |               |                |                |           |               |            |                |            |             |             |            |                |             |                  |                 |                      |            |                 |                |            |                |                |

| Note               | BLUE H 4TH PIN | BLUE H 4TH SUB BOW | BLUE V CENT    | BLUE V SKEW    | BLUE V BOW | BLUE V SIZE    | BLUE V LINEARITY | BLUE V MID SIZE | BLUE V MID KEY | BLUE V KEY    | BLUE V SUB SKEW | BLUE V MID PIN | BLUE V PIN | BLUE V SUB BOW | BLUE V WAVE    | BLUE V 4TH PIN |  |
|--------------------|----------------|--------------------|----------------|----------------|------------|----------------|------------------|-----------------|----------------|---------------|-----------------|----------------|------------|----------------|----------------|----------------|--|
| Data<br>range      | -127+127       | -127-+127          | -95-+96        | -127-+127      | -127-+127  | -127-+127      | -127-+127        | -127-+127       | -127-+127      | -127-+127     | -127-+127       | -127-+127      | -127-+127  | -127-+127      | -127-+127      | -127-+127      |  |
| Standard           |                |                    |                |                |            |                |                  |                 |                |               |                 |                |            |                |                |                |  |
| Adjustment<br>item | BH 4PIN        | BH 4SBO            | <b>BV CENT</b> | <b>BV SKEW</b> | BV BOW     | <b>BV SIZE</b> | BV LIN           | <b>BV MSIZ</b>  | <b>BV MKEY</b> | <b>BV KEY</b> | BV SSKW         | <b>BV MPIN</b> | BV PIN     | BV SBOW        | <b>BV WAVE</b> | BV 4PIN        |  |
| Category           | RG             |                    |                |                |            |                |                  |                 |                |               |                 |                |            |                |                |                |  |

| Category | Adjustment | Standard<br>data | lard | Data   | Note       |
|----------|------------|------------------|------|--------|------------|
|          | 10011      | 41T              | >    | ıanığc |            |
| Œ        | ID0        | 25               | 25   | 0-255  | MODEL ID#0 |
|          | Ð          | 55               | 55   | 0-255  | MODEL ID#1 |
|          | ID2        | 31               | 41   | 0-255  | MODEL ID#2 |
|          | ID3        | 0                | 0    | 0-255  | MODEL ID#3 |
|          | Ā          | 155              | 155  | 0-255  | MODEL ID#4 |
|          | IDS        | 171              | 181  | 0-255  | MODEL ID#5 |
|          | ě          | 198              | 214  | 0-255  | MODEL ID#6 |
|          | ID7        | 99               | 2    | 0-255  | MODEL ID#7 |

4

OSD POSITION
FAVIDX CH POSITION
CH POSITION (OFF SET)

0-63 0-255 0-7

DISP POPS POPO

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Note

Data range

Standard data

Adjustment item

Category

| Category     | Adjustment | Standard<br>data | dard | Data   | Note                  |
|--------------|------------|------------------|------|--------|-----------------------|
|              | III        | 41T              | Λ    | , ango |                       |
| <b>&amp;</b> | BGHP       |                  |      | 0-15   | PIP H POSITION        |
|              | BGVP       | ,                |      | 0-15   | PIP V POSITION        |
|              | MAHP       | ı                |      | 0-15   | P&P MAIN H AQUISITION |
|              | MAVP       | ı                |      | 0-255  | P&P MAIN V AQUISITION |
|              | SAHP       | ,                |      | 0-15   | P&P SUB H AQUISITION  |
|              | SAVP       | •                |      | 0-255  | P&P SUB V AQUISITION  |
|              | DECS       | ,                | 18   | 0-31   | S DECODER REGISTERS   |
|              | DECM       | ,                | 18   | 0-31   | M DECODER REGISTERS   |
|              | DIS        | ,                | 98   | 0-127  | DISPLAY SETTING       |
|              | BSIZ       | •                | 7    | 0-15   | BORDER SIZE           |
|              | 6BIT       |                  | -    | 0-3    | 6bit (SMART6/SKIP6)   |
|              | VPED       | •                |      | 0-15   | V OFFSET              |
|              | UPED       | ı                |      | 0-15   | U OFFSET              |

PP H POSITION
PIP V POSITION
PIP V PULSE DELAY(M)
PIP V PULSE DELAY(I)
PIP CONTRAST(I)

0-127 0-63 0-31 0-31 0-15

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PIPH PIPV PIVD PIVD PCON

Note

Data range

Standard data

Adjustment item

Category

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|   | Note               | CRI COUNT HIGH | CRICOUNTLOW | HIXED FIELD COUNT | NO CCD INT COMPARE | CRI & PARITY ERROR | CRI TIME CONSTANT | SYNC SLICE BIAS 1 | SYNC SLICE BIAS 2 | C SYNC BACKPORCH DET | C SYNC FRONTPORCH DET | CRI SIGNAL END POSITION | START BIT END POSITION | CRI BACKPORCH DET | CRI FRONTPORCH DET | STROBE WINDOW ST DLY | STROBE WINDOW ED DLY | START BIT THRESHOLD | DATA START DELAY | CAPTION DT THRESHOLD | H SYNC MASK WIDTH | H SYNC VCO COUNT |
|---|--------------------|----------------|-------------|-------------------|--------------------|--------------------|-------------------|-------------------|-------------------|----------------------|-----------------------|-------------------------|------------------------|-------------------|--------------------|----------------------|----------------------|---------------------|------------------|----------------------|-------------------|------------------|
|   | Data               | 0-15           | 0-15        | 0-15              | 0-7                | 7-0                | 0-3               | 0-3               | 0-7               | 0-15                 | 0-15                  | 0-255                   | 0-255                  | 0-15              | 0-15               | 0-15                 | 0-15                 | 0-31                | 0-31             | 0-31                 | 690               | 0-255            |
|   | Standard<br>data   | 6              | 7           | 'n                | en                 | 4                  | -                 | e                 | 4                 | 4                    | 7                     | 142                     | 186                    | 00                | 0                  | e                    | 0                    | 12                  | œ                | 6                    | 4                 | 136              |
|   | Adjustment<br>item | CRUH           | CRIL        | CFLD              | igo<br>O           | CRIP               | CRIT              | CSB1              | CSB2              | CCBD                 | CCFD                  | CREP                    | CSEP                   | CRBD              | CRFD               | CSSD                 | CSED                 | CSBS                | CDSD             | SCOS                 | CHIMIK            | CHSY             |
| ႘ | Category           | ខ              |             |                   | -                  |                    |                   |                   |                   |                      |                       | t-d-                    |                        |                   |                    |                      |                      |                     |                  |                      |                   |                  |

| <br>, o o & o | 0.15 0.15 0.15 0.15 0.15 0.15 0.15  | PP FRAMEY LEVEL PP PEDESTAL R-Y(I) PP PEDESTAL B-Y(I) PP SUB HUE PP SUB COLOR PP PULSE DELAY PP SELECT DELAY |
|---------------|-------------------------------------|--|
| 0 0 0 0 0 1 0 | 0.7<br>0.11<br>0.12<br>0.13<br>0.13 | PPY DELAY PP CLP PP CLP CYCLES PP SELDOWN PP PL PP PL PP INPUT POLARITY PP OUTPUT POLARITY                   |

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| Note P&P MAIN SUB CONTRAST P&P MAIN SUB HUE P&P MAIN SUB COLOR P&P MAIN U OFFSET P&P MAIN U OFFSET P&P MAIN Y DELAY | Data range 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 | Standard data data | item MSCN MSCL MSCL MVPD MVPD MVPD MVPD MVPD MVPD MVPD MVPD |
|---|--|--------------------|---|
| P&P MAIN V OFFSET P&P MAIN Y DELAY P&P MAIN SCP CONTROL(1)  | 0-15<br>0-3<br>0-3                                 |                    | MVPD<br>MDLY<br>MBGR  |
| P&P MAIN SUB COLC   | 0-15<br>0-15                                       | 1 1                | MSCL  |
| P&P MAIN SUB HUE  | 0-15   |                    | MSHU  |
| Note  | Data<br>range                                      | Standard<br>data   | Adjustment<br>item  |

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| }        |            |                  |      |       |                        |
|----------|------------|------------------|------|-------|------------------------|
| Category | Adjustment | Standard<br>data | lard | Data  | Note                   |
|          | IICIII     | 41T              | >    | ıange |                        |
| )IC      | SSCN       | •                |      | 0-15  | P&P SUB SUB CONTRAST   |
|          | SSHU       | •                |      | 0-15  | P&P SUB SUB HUE        |
|          | SSCL       | ,                |      | 0-15  | P&P SUB SUB COLOR      |
|          | SUPD       | •                |      | 0-15  | P&P SUB U OFFSET       |
|          | SVPD       | ,                |      | 0-15  | P&P SUB V OFFSET       |
|          | SDLY       | ı                | 0    | 0-3   | P&P SUB Y DELAY        |
|          | SBGR       | •                | -    | 0-3   | P&P SUB SCP CONTROL(1) |
|          | SBGF       | ,                | -    | 0-3   | P&P SUB SCP CONTROL(2) |
|          | PAFC       | ,                | 7    | 0-3   | PIP AFC LOOP GAIN      |
|          | PTOT       | 1                | 0    | 0,1   | PIP CHROMA TOT FILTER  |
|          | PYDR       | ,                | 15   | 0-31  | PIP Y DRIVE            |
|          | PYDC       | ,                | 4    | 0-7   | PIP DC TRAN            |

|                    |                   |                    |                     |             |               | _                 |                  |            |       |             |             |       |                   |                     |
|--------------------|-------------------|--------------------|---------------------|-------------|---------------|-------------------|------------------|------------|-------|-------------|-------------|-------|-------------------|---------------------|
| Adjustment<br>item |                   | PSHP               | POP.                | Sis         | FAIL          | rtor              |                  |            |       |             |             |       |                   |                     |
| Category           |                   | ည                  |                     |             |               |                   |                  |            |       |             |             |       |                   |                     |
|                    |                   |                    |                     |             |               |                   |                  |            |       |             |             |       |                   |                     |
|                    |                   |                    |                     |             |               |                   |                  |            |       |             |             |       |                   |                     |
| Note               | PIP FRAME Y LEVEL | MP PEDESTAL R-Y(I) | PIP PEDESTAL B-Y(I) | PIP SUB HUE | PIP SUB COLOR | PIP H PULSE DELAY | PIP SELECT DELAY | PIPY DELAY | MPCLP | MPCIPCYCLES | PIP SELDOWN | PIPPL | MP INPUT POLARITY | PIP OUTPUT POLARITY |
| Data<br>range      | 0-15              | 0-15               | 0-15                | 0-15        | 0-15          | 0-15              | 0-15             | 0-7        | 0,1   | 0,1         | 0,1         | 0-3   | 0,1               | 0,1                 |
| Standard<br>data   | 7                 | •                  | •                   |             |               | 3                 | •                | •          | 0     | 0           | 0           | 0     | -                 | 0                   |
| Adjustment<br>item | FRMY              | IPER               | PEB                 | IHUE        | ICOL          | PHDL              | PYSD             | PYDL       | PCPS  | PCPF        | PSEL        | PPLL  | CHIN              | CHRO                |
| egory              | 8                 |                    |                     |             | -             |                   |                  |            |       |             |             |       |                   |                     |

PIP SHARPNESS FO
PIP DYNAMIC PICTURE
PIP COLOR SYSTEM
PIP X' TAL
PIP X' TAL

0,1 0,1 0,3 0,3

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Note

Data range

Standard data 41T V

| ADJUSTMENT ITEM AND PROCEDURE   | EQUIPMENT<br>AND SIGNAL | MEASUREMENT<br>POSITION | ADJUSTMENT<br>LOCATION        | ILLUSTRATION AND SHAPE<br>AND NUMBER |
|---|-------------------------|-------------------------|-------------------------------|--------------------------------------|
| CONVERGENCE ADJUSTMENT  When replacing the deflection yoke, always perform  "DEFLECTION YOKE TILT ADJUSTMENT" before adjusting the convergence. |                         |                         |                               |                                      |
| Adjustment procedure  VP MAIN  RG GH (SUB), RG GV (SUB)  RG RH(SUB), RG RV (SUB)  RG BH (SUB), RG BV (SUB)                                      |                         |                         |                               |                                      |
| • GREEN REGISTRATION ADJUSTMENT • V-SHIFT adjustment  | Monoscope<br>pattern or |                         | <vp menu=""><br/>VP VPOS</vp> | vPos                                 |
| V-LINEARITY adjustment  | pattern                 |                         | VP VSIZ                       | vsiz<br>vsiz                         |
| V-SIZE, V-CORRECTION adjustment     While tracking, adjust so that the lattice intervals for VSIZ and     VSCO are equal.                       |                         |                         | VP VLIN<br>VP VSCO            | VLIN ***                             |
|   |                         |                         |                               | vsco (                               |

| ADJUSTMENT ITEM AND PROCEDURE  | EQUIPMENT<br>AND SIGNAL | MEASUREMENT<br>POSITION | ADJUSTMENT<br>LOCATION | ILLUSTRATION AND SHAPE<br>AND NUMBER   |
|--|-------------------------|-------------------------|------------------------|--|
| • H-SHIFT adjustment   |                         |                         | SOAH AA                | HPOS •   |
| H-SIZE adjustment     Finely adjust with SUB MSIZ.   |                         |                         | VP HSIZ                | HSIZ  The state of |
| PIN-AMP adjustment     Finely adjust with SUB MPIN.  |                         |                         | VP PAMP                | PAMP   |
| UPPER/LOWER-CORNER PIN adjustment     Correct the screens top and bottom bow line.     However, if this adjustment is overdone, distortion may occur   |                         |                         | VP UPIN                | NIAO +   |
| with the PLN-AMP adjustment that can not be re-adjusted.  Note: The PIN-AMP adjusts the overall screen from top to bottom, but the UPPER/LOWER-CORNER PIN adjustments have large movement in the top and bottom sections, so be careful. |                         |                         | VP LPIN                | LPIN +   |
| • V-BOW, V-ANGLE adjustment  Correct the tilt and bow of the vertical line at the center of the screen.  |                         |                         | VP VBOW                | VBOW ←   |
|  |                         |                         | VP VANG                | VANG   |
|  |                         |                         |                        |  |

| ADJUSTMENT ITEM AND PROCEDURE   | EQUIPMENT<br>AND SIGNAL | MEASUREMENT<br>POSITION | ADJUSTMENT<br>LOCATION                                     | ILLUSTRATION AND SHAPE<br>AND NUMBER                |
|---|-------------------------|-------------------------|--|---|
| • GREEN SUB ADJUSTMENT SCREEN CENTER SECTION GREEN VERTICAL LINE ADJUSTMENT  1. Finely adjust with GH CENT, GH BOW, GH SKEW. Adjust by watching out for the RGH CENT screen center section. |                         |                         | <rg-gh menu=""><br/>GH CENT<br/>GH SKEW<br/>GH BOW</rg-gh> | Watch out only for the GH CENT center point.        |
| 2. GH 4TH BOW adjustment Correct the corner distortion that could not be adjusted away with the GH BOW adjustment.  |                         |                         | GH 4BOW  | GH CENT  GH SKEW  GH BOW  GH 4BOW  GH 4BOW  GH 4BOW |

| ADJUSTMENT ITEM AND PROCEDURE  | EQUIPMENT<br>AND SIGNAL | MEASUREMENT<br>POSITION | ADJUSTMENT<br>LOCATION              | ILLUSTRATION AND SHAPE<br>AND NUMBER          |
|--|-------------------------|-------------------------|-------------------------------------|---|
| SCREEN CENTER SECTION GREEN HORIZONTAL LINE ADJUSTMENT   |                         |                         | <rg-gv menu=""></rg-gv>             | -   |
| 1. Finely adjust the center position of the vertical line at the center of the screen with GV CENT.  |                         |                         | GV CENT                             | Watch the horizontal center line.             |
|  |                         |                         |                                     | Watch out only for the RGV CENT center point. |
|  |                         |                         |                                     | GV CENT  ◆                                    |
| 2. Correct the tilt and bow of the horizontal line at the center of the screen with GV SKEW and GV BOW.  |                         |                         | GV SKEW<br>GV BOW                   | GV SKEW                                       |
|  |                         |                         |                                     | GV BOW  |
| GREEN SIZE AND LINEARITY ADJUSTMENT  1. Balance the sizes at both sides of the center section of the screen with GH MI IN  |                         |                         | <rg-rh menu=""><br/>GH MLIN</rg-rh> |   |
| 2. Balance the sizes on both end sections of the screen with GH LIN.  3. While tracking, adjust with GH MLIN and GH LIN so that the sizes of the horizontal line at the center of the screen are |                         |                         |                                     | NI IN MILITA                                  |
| symmetrical left and right.  |                         |                         |                                     | -<br>-  |

| ILLUSTRATION AND SHAPE<br>AND NUMBER | MSIZ SIZE SIZE SIZE SIZE SIZE SIZE SIZE S   |   |
|--------------------------------------|---|---|
| ADJUSTMENT<br>LOCATION               | <rg-gh menu=""><br/>GH SIZE</rg-gh>   | <rg-gv menu=""><br/>GV LIN</rg-gv>  |
| MEASUREMENT<br>POSITION              |   |   |
| EQUIPMENT<br>AND SIGNAL              |   |   |
| ADJUSTMENT ITEM AND PROCEDURE        | GREEN HORIZONTAL SIZE ADJUSTMENT  1. Adjust with GH MSIZE so that the sizes of both ends and of both sides of the center section of the screen are equal.  2. Adjust with GH SIZE so that the horizontal sizes of both ends and of both sides of the center section of the screen are equal.  3. While tracking, adjust with GH MSIZ and GH SIZE so that the lattice intervals for the horizontal line section of the center section of the screen are equal and so that the horizontal size is the prescribed value.  4. If M LIN is changed when the GH MSIZ and GH SIZE adjustment is complete, adjust again while tracking. | <ul> <li>With just the H SIZE adjustment in MAIN, if there is no need to adjust GH SIZE in SUB this can save power.</li> <li>GREEN VERTICAL LINEARITY ADJUSTMENT</li> <li>1. Adjust GV LIN so that the vertical lines at the top and bottom of the screen are symmetrical.</li> </ul> |

| ILLUSTRATION AND SHAPE<br>AND NUMBER | SS KW  |
|--------------------------------------|--|
| ADJUSTMENT<br>LOCATION               | <pre><rg-gv menu=""> GV SIZE GV SIZE GH SSKW GH KEY</rg-gv></pre>  |
| MEASUREMENT<br>POSITION              |  |
| EQUIPMENT<br>AND SIGNAL              |  |
| ADJUSTMENT ITEM AND PROCEDURE        | GREEN VERTICAL SIZE ADJUSTMENT  1. Adjust with GV MSIZE so that the sizes for the top and bottom sections of the screen and for both sides of the center section of the screen are equal.  2. Set the vertical size to the prescribed value with GV SIZE.  3. Adjust GV MSIZ and GV SIZE watching the vertical line at the center section of the screen.  4. While tracking, adjust with GV MSIZ and GV SIZE so that the lattice intervals for the vertical line section of the center section of the screen are equal and so that the vertical size is the regulation value.  5. If GV LIN is out of place when the GV MSIZ and GV SIZE adjustment is complete, adjust again while tracking.  OIf there is no need to adjust GV SIZE in SUB with just the V SIZE adjustment in MAIN, this can save power.  1. Adjust with GH SSKW so that the tilt of the vertical lines at both ends of the screen is symmetrical left and right.  2. Adjust with GH KSY so that there is no tilt in the vertical lines at both ends of the screen is symmetrical left and right.  3. If there is a tilt on either the left or right after the GH KEY adjustment, adjust while tracking. |

| ILLUSTRATION AND SHAPE<br>AND NUMBER | 4 Pin (1) 1 Boo   | N BOW   |
|--------------------------------------|---|---|
| ADJUSTMENT<br>LOCATION               | <rg-gh menu=""><br/>GH 4PIN<br/>GH 4BOW</rg-gh>   | <rg-gh menu=""><br/>GH MBOW<br/>GH SBOW</rg-gh>   |
| MEASUREMENT<br>POSITION              |   |   |
| EQUIPMENT<br>AND SIGNAL              |   |   |
| ADJUSTMENT ITEM AND PROCEDURE        | GREEN HORIZONTAL QUATERNARY ADJUSTMENT  1. Correct the quaternary distortion with GH 4PIN.  2. While balancing, correct the quaternary distortion of both end sections of the screen with GH 4SBO.  3. While tracking, adjust with GH 4PIN and GH 4SBO. | GREEN HORIZONTAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT  1. Adjust with GH MBOW so that the pin asymmetry at both sides of the center section of screen is symmetrical. 2. Adjust with GH SBOW so that the bow at both end sections of the screen is symmetrical left and right. 3. While tracking, adjust with GH MBOW and GH SBOW so that the bow of vertical lines on the entire screen is symmetrical left and right. |

| IENT ILLUSTRATION AND SHAPE ON AND NUMBER | ENU>  | NI N   | GV WAVE  GHABOW  GHABOW  GHABOW   |
|---|---|--|---|
| ADJUSTMENT<br>LOCATION                    | <rg-gh menu=""> GH MPIN GH PIN GH MBOW GH SBOW</rg-gh>  | <rg-gv menu=""></rg-gv>  | GV WAVE   |
| MEASUREMENT<br>POSITION                   |   |  |   |
| EQUIPMENT<br>AND SIGNAL                   |   |  |   |
| ADJUSTMENT ITEM AND PROCEDURE             | GREEN HORIZONTAL SYMMETRICAL PIN DISTORTION ADJUSTMENT  1. Adjust the pin distortion at both sides of the center section of the screen with GH MPIN. 2. Adjust the pin distortion at both end sections of the screen with GH PIN. 3. While tracking, adjust with GH MPIN and GH PIN so that the PIN of vertical lines on the entire screen have no bowing. 4. If there is asymmetrical pin distortion after the GH MPIN and GH PIN adjustments, adjust with GH MBOW and GH SBOW while tracking. | <ul> <li>With just the PIN AMP adjustment in MAIN, if there is no need to adjust GV PIN in SUB, this can save power.</li> <li>GREEN VERTICAL WAVE (TERTIARY DISTORTION)</li> </ul> | <ol> <li>Take the screen top and bottom horizontal lines with GV WAVW and find the secondary and quaternary waveform.</li> <li>There is KEY distortion after the GV WAVW adjustment, so adjust with GV WAVW and GV KEY while tracking.</li> </ol> |

| ILLUSTRATION AND SHAPE<br>AND NUMBER |  | GV 4PIN   |                                       | GV SSKW  | MKEY (   | GOV SSSKW  GOV KEY  COV KEY  |
|--------------------------------------|--|---|---------------------------------------|--|--|--|
| ADJUSTMENT<br>LOCATION               | <rg-gv menu=""></rg-gv>  | GV 4PIN   | <rg-gv menu=""></rg-gv>               | GV SSKW GV MKEY  | GV KEY   | GV SSKW  |
| MEASUREMENT<br>POSITION              |  |   |                                       |  |  |  |
| EQUIPMENT<br>AND SIGNAL              |  |   |                                       |  |  |  |
| ADJUSTMENT ITEM AND PROCEDURE        | GREEN VERTICAL QUATERNARY DISTORTION ADJUSTMENT  1. Correct the quaternary distortion of the horizontal lines at the ton and bottom sections of the screen with RGV 4PIN | 1) Since there is no 4SBOW for vertical correction, there will be a slight imbalance, but adjust to eliminate the distortion from the horizontal line at either the top or the bottom of the screen.  2) In many cases, the horizontal lines at the top and bottom sections of the screen are not straight lines after the adjustment. As long as the secondary distortion is mild enough that it can be corrected with the PIN adjustment, this is OK. | GREEN VERTICAL TRAPEZOIDAL DISTORTION | 1. Adjust with GV SSKW so that the tilt of the horizontal lines at the top and bottom sections of the screen is symmetrical about the center position horizontal line. | at both sides of the horizontal lines at the center section of the stream.  3. Adjust with GV KEY so that there is no tilt for the horizontal lines at the top and bottom sections of the screen.  4. While tracking, adjust with GV MKEY and GV KEY so that there is no tilt for the horizontal lines at the top and bottom sections of the screen. | 5. If the tilt is unbalanced after the GV MKEY and GV KEY adjustment, adjust again with GV SSKW. |

| ADJUSTMENT ITEM AND PROCEDURE   | EQUIPMENT<br>AND SIGNAL | MEASUREMENT<br>POSITION | ADJUSTMENT<br>LOCATION                         | ILLUSTRATION AND SHAPE<br>AND NUMBER |
|---|-------------------------|-------------------------|--|--------------------------------------|
| (SECONDARY DISTORTION) ADJUSTMENT  1. Correct the asymmetrical pin distortion at the top and bottom sections of the screen with GV SBOW.  |                         |                         | <rg-gv menu=""><br/>GV SBOW</rg-gv>            | RGV SBOW                             |
| GREEN VERTICAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT  1. Adjust the pin distortion for both side sections and the center of the screen with GV MPIN. 2. Adjust with GV PIN so that the horizontal lines at the top and bottom sections of the screen are straight lines. 3. Adjust with GV MPIN and GV PIN so that there is no curve in the horizontal lines on the entire screen. |                         |                         | <rg-gv menu=""><br/>GV MPIN<br/>GV PIN</rg-gv> | NId NIdW                             |
| 4. After the adjustments in Items 1-3, adjust the tracking with GV SBOW, GV MPIN, and GV PIN.   |                         |                         | GV SBOW  | GV MPIN GV PIN                       |

| eu                                   |   |   |
|--------------------------------------|---|---|
| ILLUSTRATION AND SHAPE<br>AND NUMBER |   |   |
| TRATION AND S<br>AND NUMBER          |   |   |
| וררת                                 |   |   |
| L Z                                  |   |   |
| ADJUSTMENT<br>LOCATION               |   |   |
|                                      |   |   |
| MEASUREMENT<br>POSITION              |   |   |
|                                      | n pattern   | ) pattern   |
| EQUIPMENT<br>AND SIGNAL              | Cross-hatch pattern   | Cross-hatch pattern   |
|                                      | ljustment. luring red e changed   | ach other. ring RED items can   |
| EDURE                                | H, RRV)  Receive a cross-hatch signal.  Adjust so that the red lines lay on the green lines.  Adjust with the same procedure as the GREEN SUBadjustment.  Notes: 1. The main correction is not carried out during red registration adjustment.  2. Beware. The green adjustment items can be changed by mistake.  3. Unlike for green, adjust within the range -127 ~ +128.   | H, RBV)  Receive a cross-hatch signal.  Adjust so that the blue and green lines are on top of each other.  Notes: 1. The main correction is not carried out during RED registration adjustment.  2. Beware. The GREEN and RED adjustment items can be changed by mistake.   |
| ADJUSTMENT ITEM AND PROCEDURE        | on the gree as the GRE is not ca lent.  djustment is ust within the state of the control of the | ion ADJU in lines are in is not carr ent. Vand RED ake.   |
| T ITEM A                             | RED REGISTRATION A TOSS-hatch signal.  That the red lines lay on the same procedure as to the main correction is registration adjustment.  Beware. The green adjuby mistake.  Unlike for green, adjust volulike for green, adjust volulike for green.   | BLUE REGISTRATION ross-hatch signal. hat the blue and green lin registration adjustment. Beware. The GREEN and be changed by mistake.   |
| USTMEN                               | response registry response registration registration by mistake.  | BLUE RE tross-hatc that the bl registrati registrati be chang   |
| ADV                                  | GREEN AND RED REGISTRATION ADJUSTMENT (RRH, RRV)  1. Receive a cross-hatch signal. 2. Adjust so that the red lines lay on the green lines. Adjust with the same procedure as the GREEN SUE Notes: 1. The main correction is not carried our registration adjustment. 2. Beware. The green adjustment items car by mistake. 3. Unlike for green, adjust within the range-  | GREEN AND BLUE REGISTRATION ADJUSTMENT  (RBH, RBV)  1. Receive a cross-hatch signal. 2. Adjust so that the blue and green lines are on top of each other.  Notes: 1. The main correction is not carried out during RED registration adjustment.  2. Beware. The GREEN and RED adjustment items can be changed by mistake. |
|                                      | (RF 2. 1. 2. 1. 2. 1. 2. 1. 2. 2. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.   |   |

| ILLUSTRATION AND SHAPE<br>AND NUMBER |   |   |
|--------------------------------------|---|---|
| ADJUSTMENT<br>LOCATION               | PICTUREminimun <rgb menu=""></rgb>  | RGB GCUT RGB BCUT  PICTURE  TGB GDRV RGB BDRV PICTURE  TGB BDRV  TGB BDRV  TGB BDRV  TGB BDRV   |
| MEASUREMENT<br>POSITION              |   |   |
| EQUIPMENT<br>AND SIGNAL              | Monoscope pattern   | All White pattern   |
| ADJUSTMENT ITEM AND PROCEDURE        | 1. Receive an off-air signal. 2. Adjust the AGC VR (TU 1001) so that there is no snow noise and cross-modulation.  WHITE BALANCE ADJUSTMENT 1. Receive the monoscope pattern signal and adjust the picture quality with the menu. 2. Adjust service mode SBRT so that the signal 10 IRE section | barely glows.  3. Receive the all-white pattern signal.  4. Adjust the white balance with service mode GCUT and BCUT.  5. Adjust service mode SBRT so that the signal 100 IRE section barely glows.  6. Adjust the white balance with service mode GDRV and BDRV.  7. Repeatedly adjust the white balance for the minimum and maximum picture settings. |

# SAFETY RELATED ADJUSTMENTS

| ILLUSTRATION AND SHAPE<br>AND NUMBER | Ramove the can off from    | the unused terminal and connect a static voltmeter | thore.   |                  |   | )   |  |   |  | CS14 RS61                                 | TP135V CN505 | H5)2  | 10061  |  |  |  |  |  |
|--------------------------------------|----------------------------|--|--|------------------|---|---|--|---|--|---|--------------|---|--|--|--|--|--|--|
| ADJUSTMENT<br>LOCATION               | <b>M</b> C514              |  |  |                  |   |   |  |   |  |   |              |   |  |  |  |  |  |  |
| MEASUREMENT<br>POSITION              | ■ marked parts C514, C516, | C515,  | T502 (PMT),<br>T503 (HLT),<br>T504 (FRT)   | DEFLECTION YOKE, |   |   |  | <del></del>   |  |   |              |   |  |  |  |  |  |  |
| EQUIPMENT<br>AND SIGNAL              |                            |  |  |                  |   |   |  |   |  |   |              |   |  |  |  |  |  |  |
| ADJUSTMENT ITEM AND PROCEDURE        | [ G BOARD ]                | HV REGULATION CIRCUIT CHECK AND ADJUSTMENT         | When replacing the following components marked with  on the schematic diagram always check HV regulation, and if necessary re- | adjust.          | I. Connect a HV static voltmeter to the unconnected plug of the | nign-voltage block.  2. Power on the set. | 3. Receive dot signal pattern. (PICTURE and BRIGHT to minimum) | 4. Check that the HV static voltmeter is reading 31.00±1.0kVdc. | HV Regulation adjustment 1. Connect a HV static voltmeter to the unconnected plug of the | high-voltage block.  2. Power on the set. |              | minimum) 4. If anode voltage is 32kV or higher, replace C514 of 390PF/2kV | with that of 680PF/2kV, and check if the voltage is within the | Standard range.  5. If anode voltage is 30kV or lower, replace C514 of 390PF/2kV | with that of 100PF/2kV, and check if the voltage is within the standard range. |  |  |  |

| ADJUSTMENT ITEM AND PROCEDURE  | EQUIPMENT<br>AND SIGNAL | MEASUREMENT<br>POSITION  | ADJUSTMENT<br>LOCATION | ILLUSTRATION AND SHAPE<br>AND NUMBER |
|--|-------------------------|--|------------------------|--------------------------------------|
| [GBOARD]   |                         |  |                        |                                      |
| HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT (M R514, R561)   |                         | ✓ marked parts   | <b>K</b> R514, 561     | 100 M                                |
| When replacing the following components marked with  on the schematic diagram, always check hold-down voltage and if necessary re-adjust.  |                         | R502, R514,<br>R516, R517,<br>R539, R560,<br>R561, C507,                                       |                        | C514 R561 N3 N3 CN506 CN506 CN506    |
| <del>_</del>   |                         | C513, D501, D504, D507, IC301, IC501, IC651, T502 (PMT), T503 (HLT), T504(FBT) DEFLECTION YOKE |                        | ICest T                              |
| <ul> <li>4. Connect a 220k variable resistor, across pin (3) and pin (4) of IC651 set to maximum value.</li> <li>5. Power on the set.</li> <li>6. Receive dot signal pattern. (PICTURE and BRIGHT to minimum)</li> <li>7. Gradually lower the value of the variable resistor and check that the hold-down circuit operates at a static voltmeter reading of 33.5±1.0kVdc when the raster disappears.</li> </ul>  |                         |  |                        |                                      |
| <ul> <li>HV HOLD-DOWN ADJUSTMENT</li> <li>1. Repeat steps ① ~ ① as above.</li> <li>2. If hold down voltage is 34.5kV or higher, remove R514, mount a resistor (390kΩ, 1/4W : RN) onto R561 instead, and check again if the hold-down voltage is within the standard range.</li> <li>3. If hold-down voltage is 32.5kV or lower, mount a resistor (220kΩ, 1/4W : RN) onto R561, and check again if the hold-down voltage is within the standard range.</li> </ul> |                         |  |                        |                                      |
| NOTE: Please finish the adjustment as soon as possible.  |                         |  |                        |                                      |

| ADJUSTMENT ITEM AND PROCEDURE   | EQUIPMENT<br>AND SIGNAL | MEASUREMENT<br>POSITION | ADJUSTMENT<br>LOCATION | ILLUSTRATION AND SHAPE<br>AND NUMBER                              |
|---|-------------------------|-------------------------|------------------------|---|
| [ G BOARD ]  The following adjustments should always be performed when replacing IC651.  1. Supply 130VAC to variable autotransformer.  2. Input dot signal.  3. Set the PICTURE control and the BRIGHTNESS controls to minimum.  4. Confirm if the voltage of G BOARD TP135V is less than 137.0 Vdc.   |                         |                         |                        | G BOARD COMPONENT SIDE.  KI H H H H H H H H H H H H H H H H H H H |
| <ol> <li>If step 4 is not satisfied, replace IC651 and repeat above steps.</li> <li>B OVP CONFIRMATION         <ol> <li>Remove CN651 connector.</li> <li>Connect a voltmeter to TP135V, and TP (PROT) and ground.</li> <li>Connect a voltmeter to TP135V, and TP (PROT) and ground.</li> <li>Connect a voltmeter to TP135V, and TP (PROT) and ground.</li> <li>Connect a voltmeter to TP135V, and TP (PROT) and ground.</li> <li>Connect a voltmeter to TP135V, and pin (®) of IC651, and set to maximum value.</li> <li>Supply 120VAC to variable resister.</li> <li>Set PICTURE and the BRIGHTNESS controls to minimum.</li> <li>Gradually turn the 220kΩ variable register, and check if OVP works properly when the voltage of TP135V is between 139.0-151.5V.</li> </ol> </li> </ol> |                         |                         |                        |   |

## SECTION 5 CIRCUIT ADJUSTMENT

| ADJUSTMENT ITEM AND PROCEDURE  | EQUIPMENT<br>AND SIGNAL | MEASUREMENT<br>POSITION | ADJUSTMENT<br>LOCATION | ILLUSTRATION AND SHAPE<br>AND NUMBER |
|--|-------------------------|-------------------------|------------------------|--------------------------------------|
| 1. Input a color-bar signal. 2. Adjust AGC VR of TU1101 so that snow, noise, and cross-modulation disapper from the picture. 3. Verify picture quality on each channel.  |                         |                         |                        |                                      |
| BER DISPLAY ADJUSTMENT (DISP)  1. Receive cross-hatch signal. 2. Set to Service mode. 3. Select "DISP", and adjust so that the blank spaces on the both sides of picture bar become equal. 4. Write the data into memory.    MUTING → ENTER  |                         |                         |                        |                                      |
| SUB-CONTRAST ADJUSTMENT (SCON)  1. Receive the color-bar signal. 2. PICTURE : maximum COLOR : minimum BRIGHTNESS: minimum RON1 GON0 BON0 3. Set to service mode. 4. Connect an oscilloscope between ⑥ pin of CN004 (A Board) and ground. 5. Select "SCON" and adjust so that the wave from level is 1.65±0.1Vp-p. 6. Write the data into memory MUTING → ENTER |                         |                         |                        | 1.65±0.1Vp-p                         |

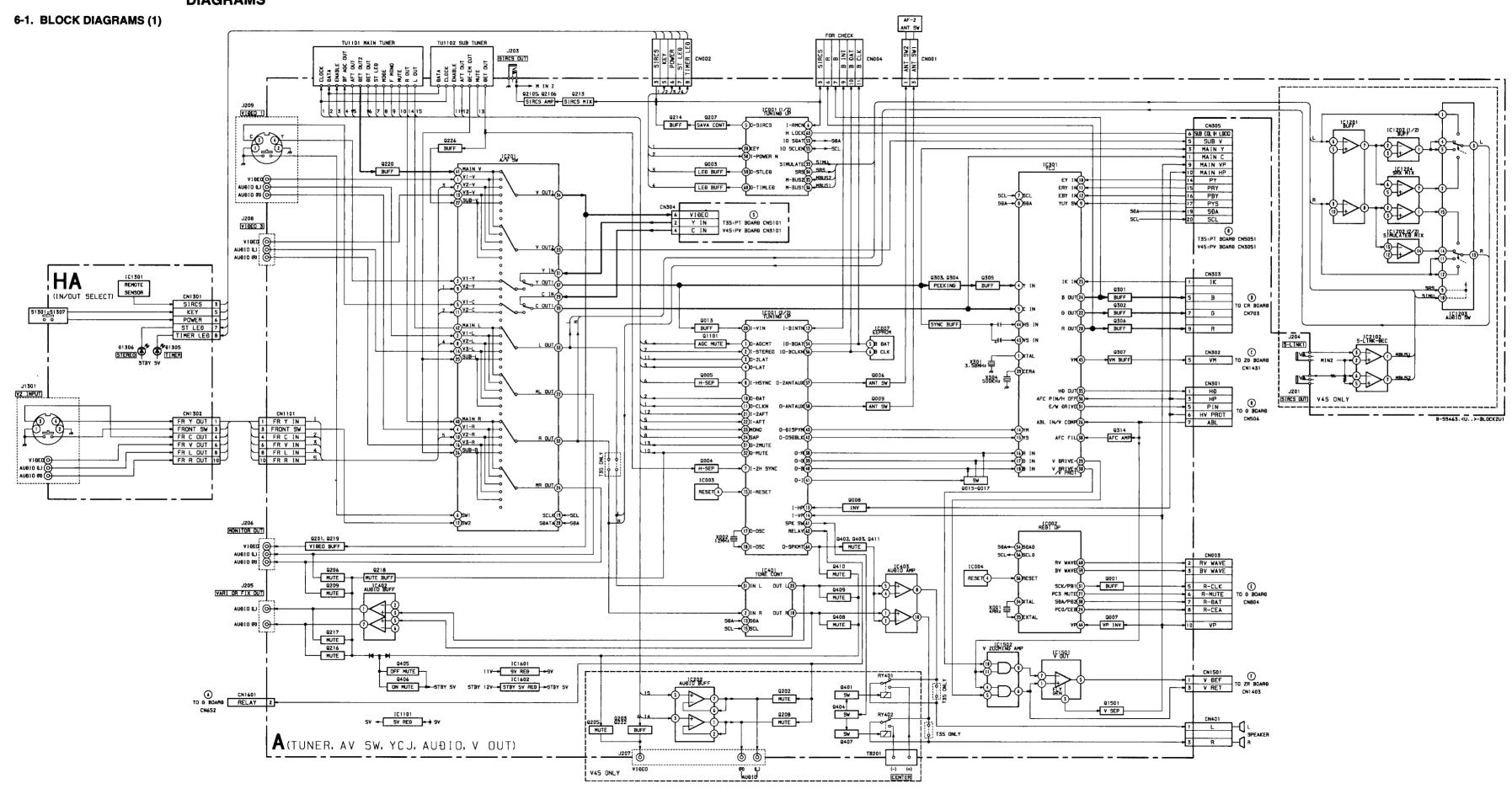
| NT ILLUSTRATION AND SHAPE AND NUMBER | VB1 VB2 VB3 VB4  | BUS MAIN  C A B (sq) V: C=D (sq)   |
|--------------------------------------|--|--|
| ADJUSTMENT<br>LOCATION               |  |  |
| MEASUREMENT<br>POSITION              |  |  |
| EQUIPMENT<br>AND SIGNAL              |  |  |
| ADJUSTMENT ITEM AND PROCEDURE        | SUB-HUE AND SUB-COLOR ADJUSTMENT (SHUE, SCOL)  1. Receive color-ber signal. 2. PICTURE : maximum COLOR : minimum 3. Set to Service mode. 4. Connect an oscilloscope between (1) pin of CN004 (A Board) connecter and ground. 5. Select "SHUE" and "SCOL", and adjust them to have VB 1=VB4 and VB2=VB3 in the waveform levels. 6. Raise SCOL data 1 steps higher. 7. Write the data into memory.  MUTING → ENTER | P IN P ACQUISITION AREA ADJUSTMENT (MAHP, MAVP, SAHP, SAVP)  1. Receive monoscope pattern signal. 2. Set to P IN P (III) mode, and to Service mode. 3. Check the MAIN/SUB PICTURE position. 4. Select "MAHP", "MAVP" and "SAHP", "SAVP" and adjust H/V position to the specified level. 5. Write the data into memory.  MUTING → ENTER |

| ILLUSTRATION AND SHAPE<br>AND NUMBER | 1.5±8% GND  |
|--------------------------------------|---|
| ADJUSTMENT<br>LOCATION               |   |
| MEASUREMENT<br>POSITION              |   |
| EQUIPMENT<br>AND SIGNAL              |   |
| ADJUSTMENT ITEM AND PROCEDURE        | P IN P POSITION ADJUSTMENT (BGHP, BGVP)  1. Receive monoscope pattern signal. 2. Set to P IN P (□ ) mode, and to Service mode. 3. Check the SUB PICTURE position. 4. Select "BGHP" and "BGVP" and adjust H/V position to the center level. 5. Write the data into memory  MUTING → ENTER  1. Receive color-bar signal. 2. PICTURE : maximum  COLOR : minimum  BRIGHTNESS: minimum  3. Set to Service mode. 4. Connect an oscilloscope between (® pin CN303 (A Board) and ground. 5. Select "MSCN" and "SSCN" adjust so that waveform level is 1.5± \$\$ "Vp-p. 6. Write the data into memory.  MUTING → ENTER |

| ADJUSTMENT ITEM AND PROCEDURE   | EQUIPMENT<br>AND SIGNAL | MEASUREMENT<br>POSITION | ADJUSTMENT<br>LOCATION | ILLUSTRATION AND SHAPE<br>AND NUMBER |
|---|-------------------------|-------------------------|------------------------|--------------------------------------|
| P IN P SUB HUE, SUB COLOR ADJUSTMENT  1. Receive the color-bar signal. 2. PICTURE : maximum COLOR : center 3. Set to Service mode. 4. Connect an oscilloscope between ⑤ pin of CN303 (A Board) and ground. 5. Select "MSHU", "SSHU" (SUB HUE) and "MSCL", SSCL (SUB COLOR), adjust them to have VB2=VB3, VB6=VB7 and VB1=VB4, VB5=VB8 in the waveform levels. 6. Raise "ICOL" data 1 steps higher. 7. Write the data into memory.  MUTING → ENTER |                         |                         |                        | VB1 VB2 VB3 VB4 VB5 VB6 VB7 VB8      |
| SUPD, SVPD)  1. Receive the white pattern signal. 2. Set to P IN P (=) mode, and to Service mode. 3. Adjust the MAIN PICTURE with "MUPD" and "MVPD" for the best white balance. 4. Adjust the SUB PICTURE white balance level with "MUPD" and "MVPD" to get the same level as the MAIN PICTURE.   |                         |                         |                        | SUB                                  |
|   |                         |                         |                        |                                      |

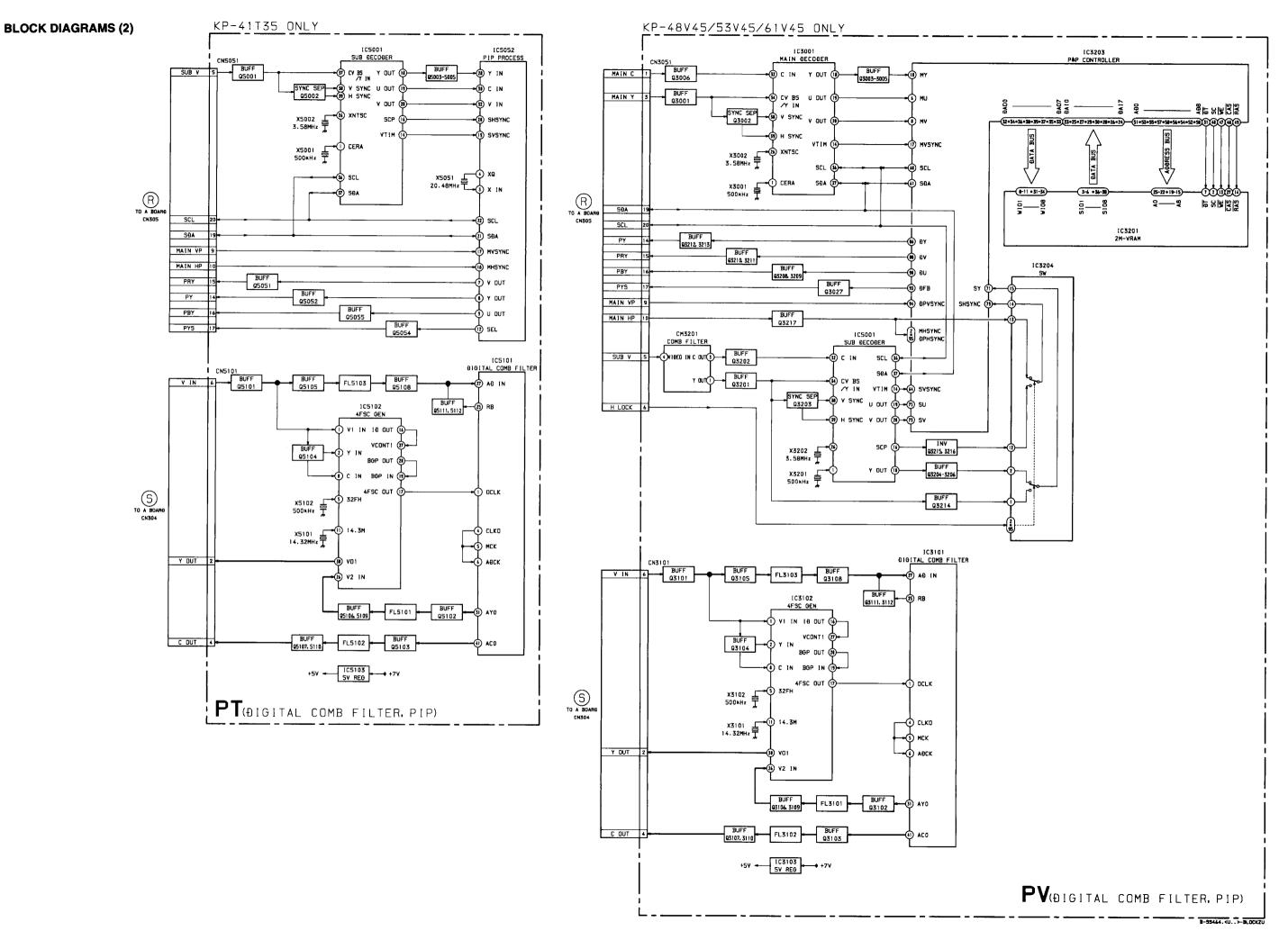
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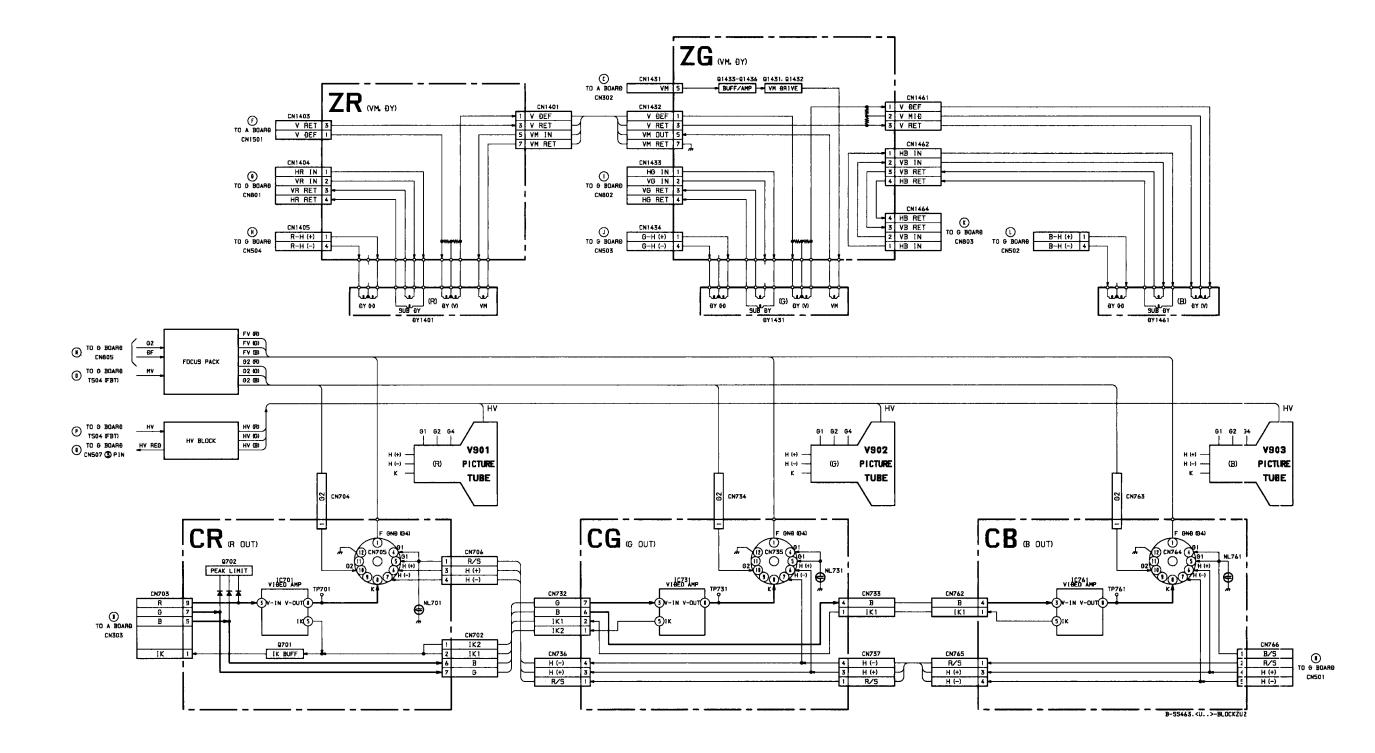
## SECTION 6 DIAGRAMS

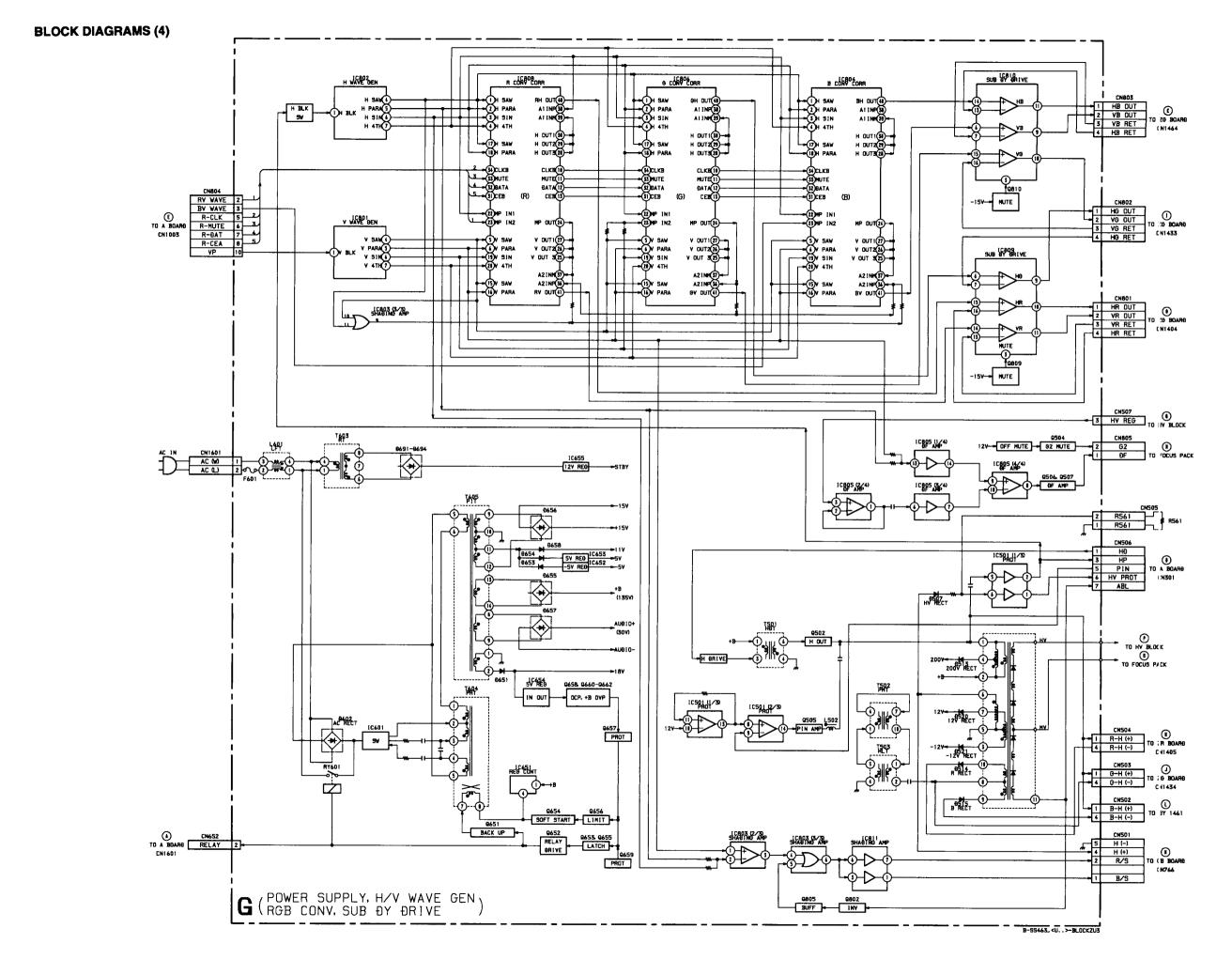


- 60 -

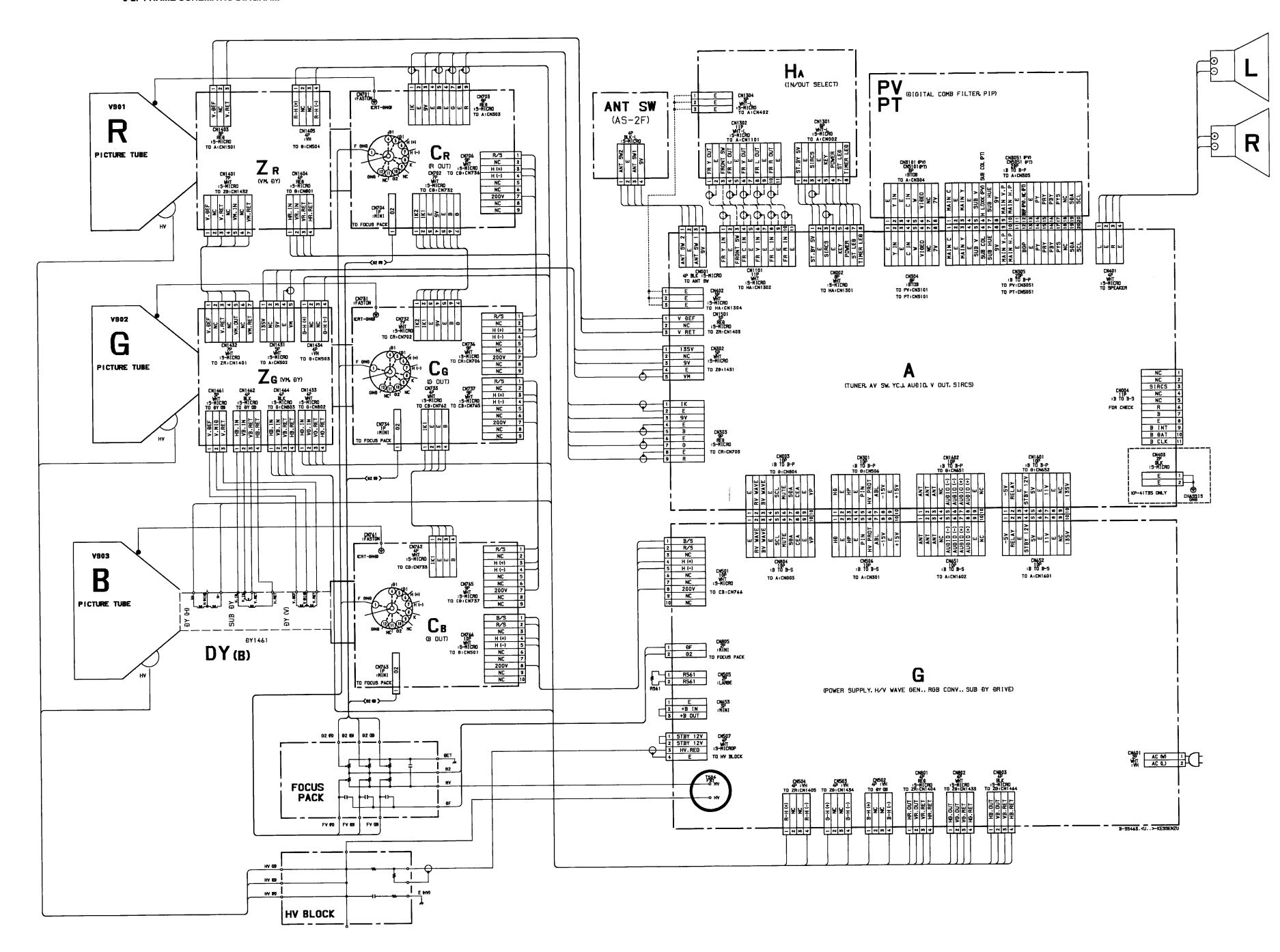
-61-



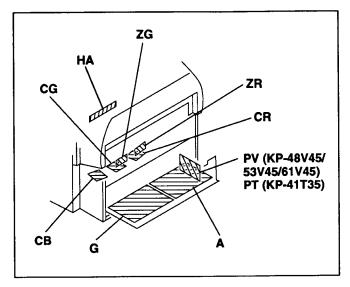




**- 69 -**



### 6-3. CIRCUIT BOARDS LOCATION



### 6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- All capacitors are in μF unless otherwise noted. pF: μμF
- Capacitors without voltage indication are all 50V. All resistors are in ohms.
- $k\Omega = 1000\Omega$ ,  $M\Omega = 1000k\Omega$
- Indication of resistance, which does not have one for rating electrical

### Pitch: 5 mm Rating electrical power: 1/4W

power, is as follows.

- - : nonflammable resistor. • w : fusible resistor.
- Δ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless
- otherwise noted.
- ; earth-chassis.

X-ray radiation.

- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding
- Should replacement be required, replace only with the value originally used • When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by M and repeat the adjustment untill the specified value is achieved.
- (Refer to R514, R561 and C514 adjustment on Page 51 to 53.)
- When replacing the part in below table, be sure to perform the related

| Part replaced ( )   | Adjustment (►)               |
|---|------------------------------|
| C514, C515, C516, IC651, T502, T503,<br>T504, DY  | HV Regulator<br>(C514)       |
| C507, C513, D501, D504, D507, IC301, IC501, IC651, R502, R514, R516, R517, R539, R560, R561, T502, T503, T504, DY | HV HOLD-DOWN<br>(R514, R561) |

- As to the voltage value shown by the semiconductors on the Schematic Diagram, see the another list.
- Readings are taken with a color-bar signal input.
- Readings are taken with a  $10M\Omega$  digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted. Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- \* : Measurement impossibility.
- Circled numbers are waveform reference.
- \_\_\_\_\_: B + tine • ---: B - line.
- 🖒 : signal path. (RF)

### Note: The symbol display is on the component side.

The components identified by shading and mark extstyle extstylare critical for safety. Replace only with part number specified.

The symbol indicate fast operating fuse. Replace only with fuse of same rating as marked.

Note: Les composants identifiés per un tramé et une marque 🛦 sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro

> Le symbole indique une fusible a action rapide. Doit etre remplacee par une fusible de meme valeur, comme maque.

> > **- 72 -**

### Reference information

RESISTOR : RN METAL FILM

: RC SOLID

: FPRD NONFRAMMABLE CARBON FUSE NONFRAMMABLE FUSIBLE

NONFRAMMABLE WIREWOUND

NONFRAMMABLE METAL OXIDE NONFRAMMABLE CEMENT

ADJUSTMENT RESISTOR

: LF-8L MICRO INDUCTOR CAPACITOR : TA TANTALUM

: PS STYROL

Device Printed symbol Terminal name

POLYPROPYLENE

MYLAR

: MPS METALIZED POLYESTER

: MPP METALIZED POLYPROPYLENE

: ALB BIPOLAR

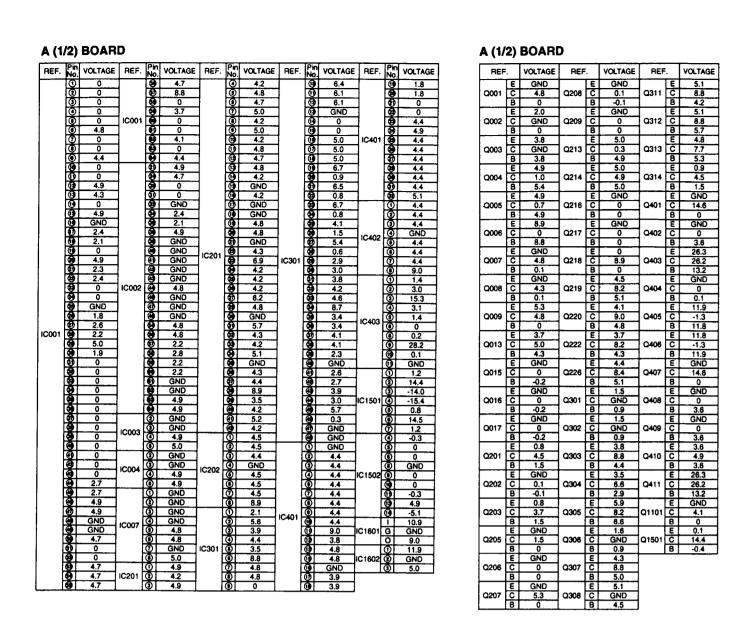
: ALT HIGH TEMPERATURE

: ALR HIGH RIPPLE

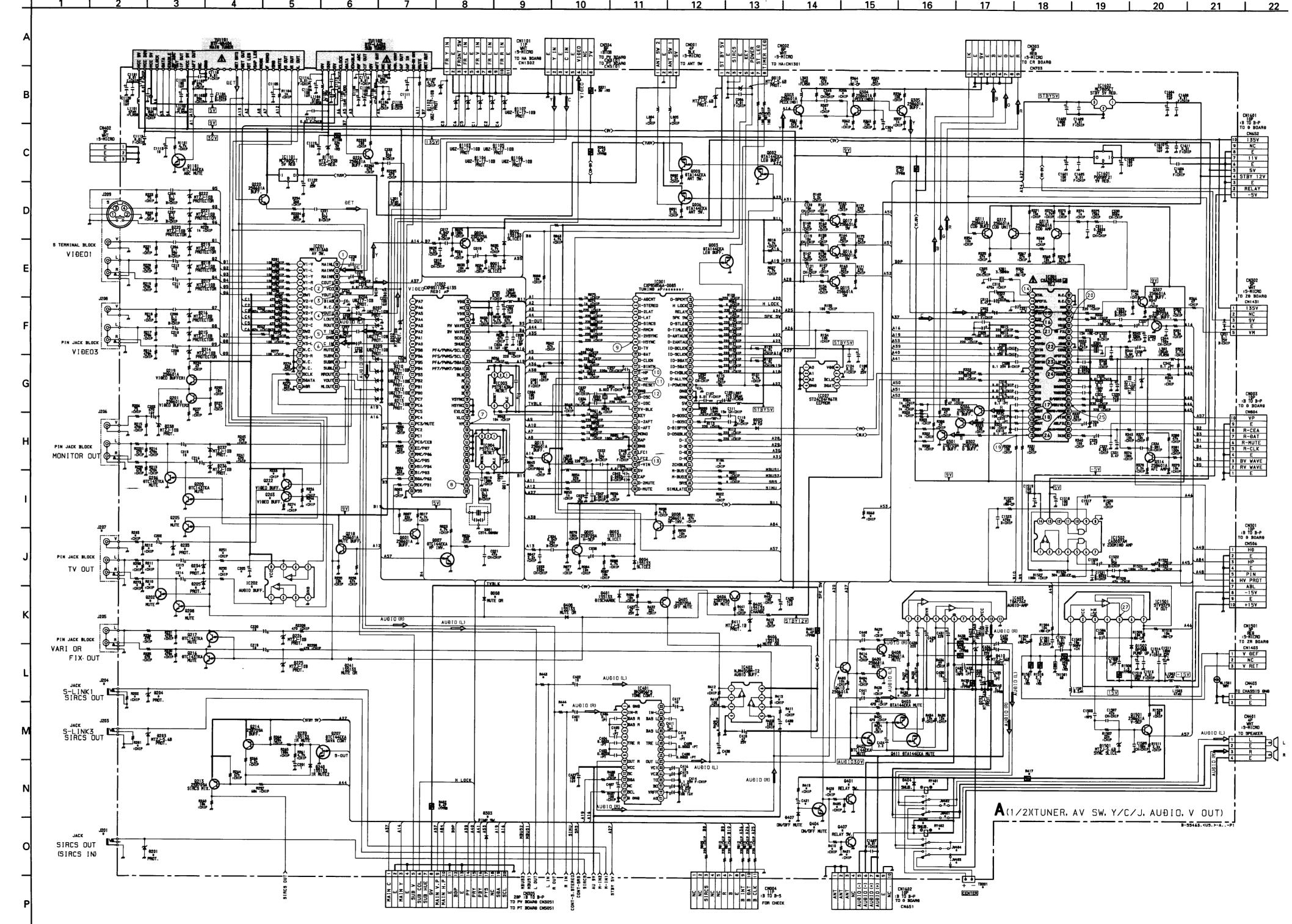
### Terminal name of semiconductors in silk screen printed circuit ( \* )

| 0        | Transistor          | 7                  | Collector                          |                            |
|----------|---------------------|--------------------|------------------------------------|----------------------------|
| $\Box$   |                     | 1                  | Base Emitter                       |                            |
| 2        | Transistor          |                    | Collector<br>Base Emitter          |                            |
| 3        | Diode               | A                  | Cathode                            | *                          |
| •        | Diode               | T                  | Cathode<br>Anode (NC)              | ¥                          |
| 3        | Diode               |                    | Cathode<br>Anode (NC)              | ٠٠.                        |
| •        | Diode               | T                  | Common Anode Cathode               | 9                          |
| •        | Diode               |                    | Common<br>Anode Cathode            | t <mark>⊳⊦</mark>          |
| 8        | Diode               | T                  | Common<br>Anode Anode              |                            |
| 9        | Diode               |                    | Common<br>Anode Anode              | र्मा⊄                      |
| (6)      | Diode               | T                  | Common<br>Cathode Cathode          | <u> </u>                   |
| 0        | Diode               |                    | Common<br>Cathode Cathode          |                            |
| 13       | Transistor<br>(FET) |                    | Drain Source<br>Gate               |                            |
| (3)      | Transistor<br>(FET) | H                  | Drain Source<br>Gate               |                            |
| 1        | Transistor<br>(FET) | I                  | □ Source<br>□ Drain<br>□ Gate      |                            |
| (3)      | Transistor          |                    | ☐ Emitter<br>☐ Collector<br>☐ Base |                            |
| €        | Transistor          | +                  | C2 81 E1                           | B10 0 62 0 82              |
| <b>(</b> | Transistor          | +                  | C1 82 E2<br>E1 81 C2               | C10 OC2<br>B10 (1 )        |
| •        | Transistor          | _                  | C1 82 E2<br>E1 81 C2               | €10 6E2                    |
| 19       | Transistor          |                    | C1 82 E2<br>E1 81 C2               | B10 C10 OE2                |
| 89       | Transistor          |                    | E2 B1 E1<br>C2 C1(62)              | C1(82)O OC2<br>B1O E2O OE2 |
| <b>1</b> | Transistor          |                    | (62)<br>81 E1 E2<br>C1 C2          | 81 0-C10 0 C2              |
| 89       | Transistor          | -                  | (82)<br>E2 E1 B1<br>C2 C1          | E1(82) O OC2               |
| _        | Discrete ser        | miconductot        |                                    |                            |
| Chip     | semiconducto        | ors that are not a | actually used are include          | ver.1.4                    |

**-71** -**– 70 –** 



| ①  | 2                  | 3                 |
|--|--------------------|-------------------|
| , The State of the | -                  | The The           |
| 1.4Vp-p ( H )  | 2.2Vp-p ( H )      | 2.2Vp-p ( H )     |
| <b>④</b>   | (5)                | 6                 |
|  | 7575-7575-7        |                   |
| 2.2Vp-p (H)  | 2.2Vp-p (H)        | 2.2Vp-p ( H )     |
| <b>⑦</b>   | 8                  | 9                 |
|  | www                |                   |
| 5.0Vp-p (V)  | 5.4Vp-p ( 4MHz )   | 4.0Vp-p ( H )     |
| 10   | 100                | 12                |
|  |                    | www               |
| 5.0Vp-p (H)  | 5.0Vp-p ( V )      | 3.4Vp-p ( 12MHz ) |
| 13   | 14)                | (15)              |
|  | www                | Later agent       |
| 2.0Vp-p (H)  | 0.14Vp-p (3.56MHz) | 2.0Vp-p (H)       |
| 16   | 17                 | 18                |
|  |                    |                   |
| 2.0Vp-p (H)  | 2.4Vp-p (H)        | 2.4Vp-p (H)       |
| ₽₩₽₽₩₽<br>₽  |                    |                   |
| 2.4Vp-p ( H )  | 2.0Vp-p ( H )      | 2.0Vp-p ( H )     |
| 22   | 23                 | 29                |
| $\mathcal{M}$  |                    |                   |
| 0.13Vp-p ( 500kHz )  | 4.8Vp-p ( H )      | 6.0Vp-p ( H )     |
| 25   | 26                 | 2                 |
|  |                    |                   |
| 1.3Vp-p ( V )  | 1.3Vp-p ( V )      | 60Vp-p ( V )      |



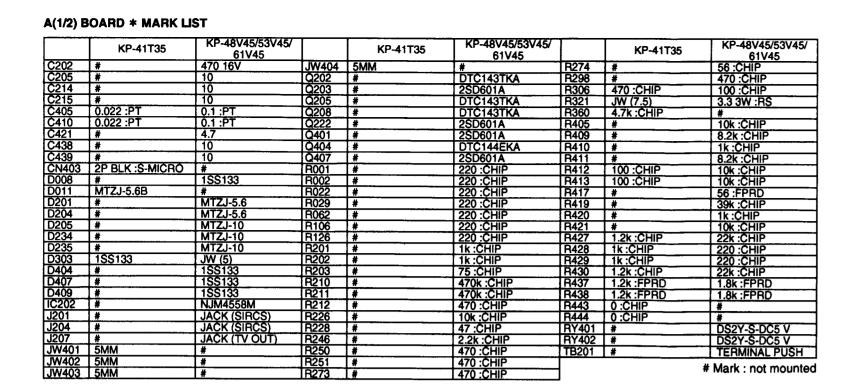
Schematic diagram A(1/2) board →

**- 73 -**

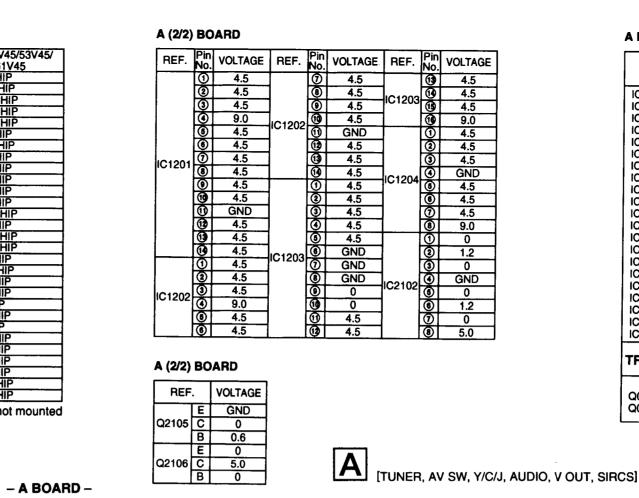
**- 74 -**

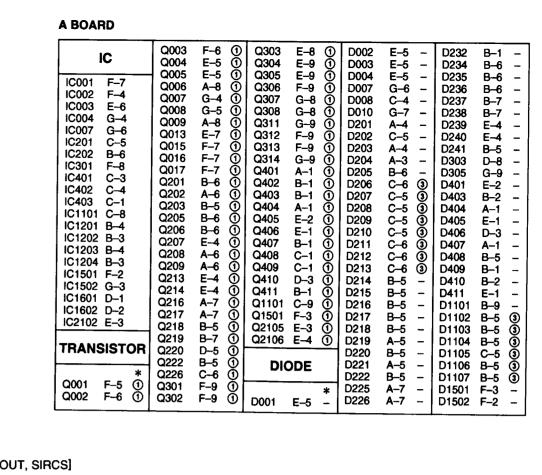
**- 76 -**

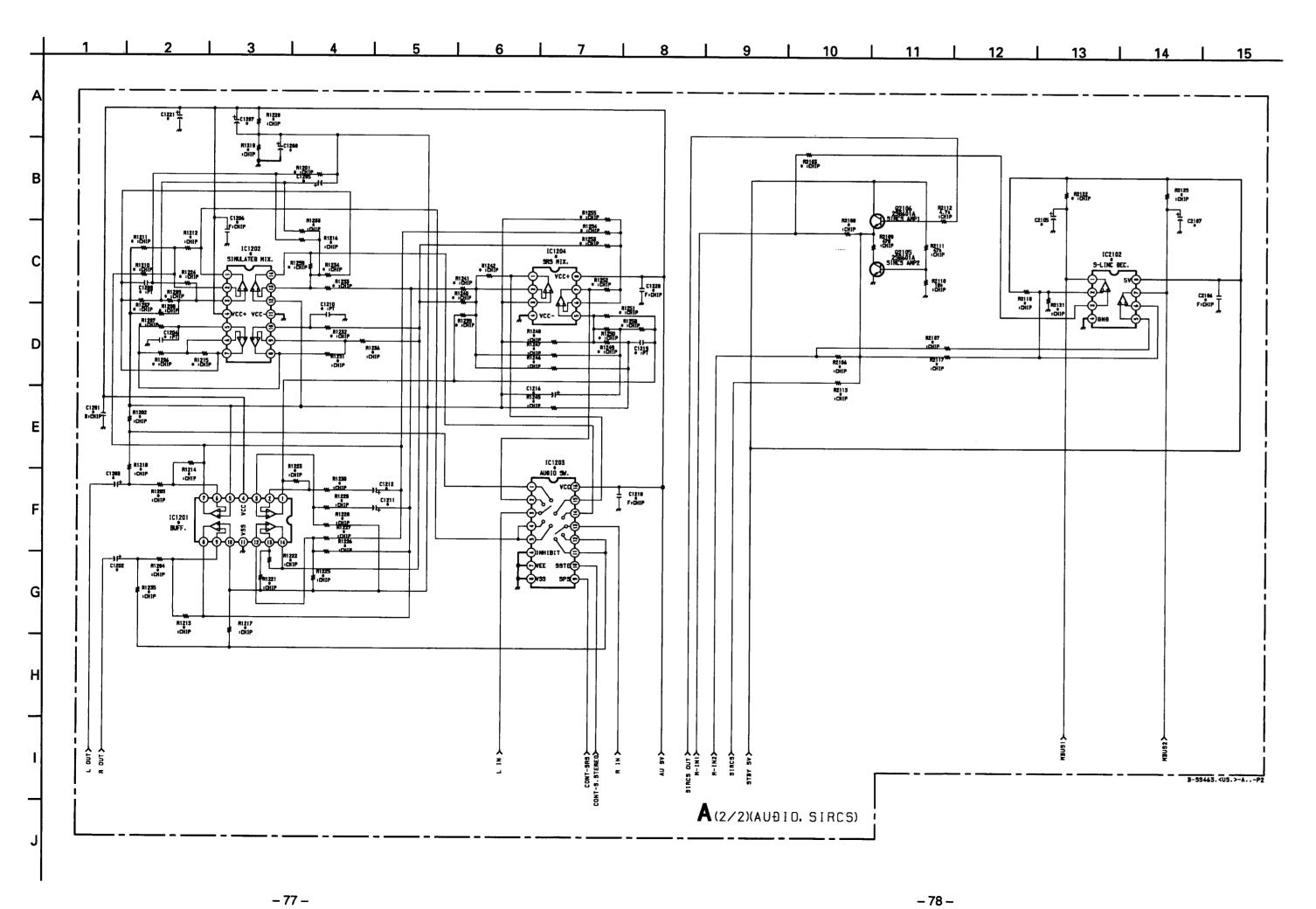
**- 75 -**

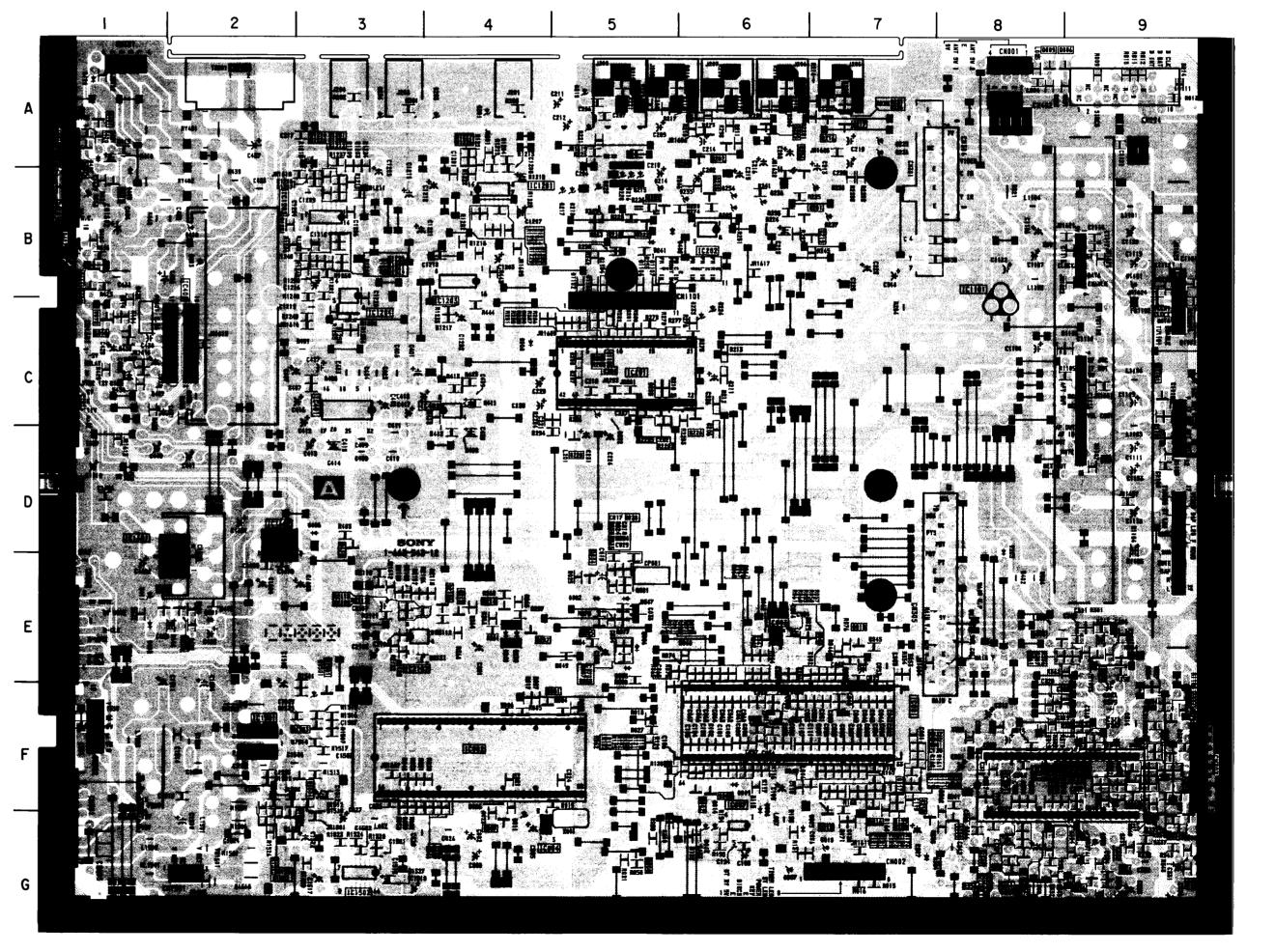


|       | KP-41T35 | KP-48V45/53V45/<br>61V45 |       | KP-41T35 | KP-48V45/53V45/<br>61V45 |              | KP-41T35  | KP-48V45/53V45/<br>61V45 |
|-------|----------|--------------------------|-------|----------|--------------------------|--------------|-----------|--------------------------|
| C1201 | #        | 0.001 B :CHIP            |       | #        | 22k :CHIP                | R1236        | #         | 22k :CHIP                |
| C1202 | #        | 10                       |       | #        | 22k :CHIP                | R1237        | #         | 1.5k :CHIP               |
| 21203 | #        | 10                       |       | #        | 22k :CHIP                | R1239        | #         | 100k :CHIP               |
| 21204 | #        | 0.0033 :PT               |       | #        | 47k :CHIP                | R1240        | #         | 100k :CHIP               |
| 21205 | #        | 0.47                     |       | #        | 120k :CHIP               | R1241        | #         | 100k :CHIP               |
| 21206 | #        | 0.1 25V F :CHIP          |       | #        | 15k :CHIP                | R1242        | #         | 47k :CHIP                |
| 21207 | #        | 10                       | R1212 | #        | 47k :CHIP                | R1245        | #         | 3.9k :CHIP               |
| 21208 | #        | 100 16V                  |       | #        | 10k :CHIP                | R1246        | #         | 47k :CHIP                |
| 21209 | #        | 0.0047 :PT               |       | #        | 10k :CHIP                | R1247        | #         | 22k :CHIP                |
|       | #        | 0.033 :PT                |       | #        | 22k :CHIP                | R1248        | #         | 22k :CHIP                |
| 1211  | #        | 0.22                     | R1216 | #        | 47k :CHIP                | R1249        | #         | 47k :CHIP                |
|       | #        | 0.22                     |       | #        | 47k :CHIP                | R1250        | #         | 22k :CHIP                |
| 21216 |          | 0.47                     | R1218 | #        | 22k :CHIP                | R1251        | #         | 100k :CHIP               |
|       | #        | 0.1 25V F :CHIP          | R1219 | #        | 10k :CHIP                | R1252        | #         | 47k :CHIP                |
|       | #        | 0.0047 :PT               | R1220 | #        | 10k :CHIP                | R1253        | #         | 100k :CHIP               |
|       | #        | 0.1 25V F :CHIP          | R1221 | #        | 4.7k :CHIP               | R1254        | #         | 120k :CHIP               |
|       | #        | 47 25V                   | R1222 | #        | 10k :CHIP                | R1255        | #         | 12k :CHIP                |
| 2105  |          | 10                       | R1223 | #        | 18k :CHIP                | R1258        | #         | 1.5k :CHIP               |
| 2106  | #        | 0.1 25V F :CHIP          | R1224 | #        | 47k :CHIP                |              | #         | 47k :CHIP                |
| 2107  | #        | 10                       | R1225 | #        | 10k :CHIP                |              | #         | 10k :CHIP                |
| C1201 |          | BA14741F-T2              | R1226 | #        | 10k :CHIP                | R2106        | 100 :CHIP | 1k :CHIP                 |
| C1202 |          | BA14741F-T2              | R1227 | #        | 10k :CHIP                |              | #         | 10k :CHIP                |
| C1203 |          | BU4502BCF                | R1228 | #        | 18k :CHIP                |              | #         | 1k :CHIP                 |
| C1204 | #        | NJM4558M                 | R1229 | #        | 10k :CHIP                | R2113        | #         | 100 :CHIP                |
| C2102 |          | NJM2903M                 | R1230 | #        | 10k :CHIP                | R2117        | #         | 10k :CHIP                |
| 11201 | #        | 390 :CHIP                | R1231 | #        | 22k :CHIP                |              | #         | 22k :CHIP                |
| 11202 | #        | 47k :CHIP                | R1232 | #        | 22k :CHIP                | R2121        | #         | 22k :CHIP                |
| 11203 |          | 47k :CHIP                | R1233 | #        | 120k :CHIP               |              | #         | 4.7k :CHIP               |
| 31204 | #        | 27k :CHIP                | R1234 | #        | 100k :CHIP               |              | #         | 4.7k :CHIP               |
| 11205 | #        | 27k :CHIP                | R1235 | #        | 27k :CHIP                | <del> </del> |           | # Mark : not mount       |



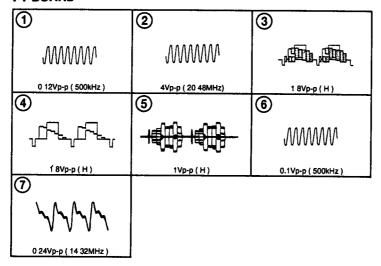






**– 77** –

### PT BOARD

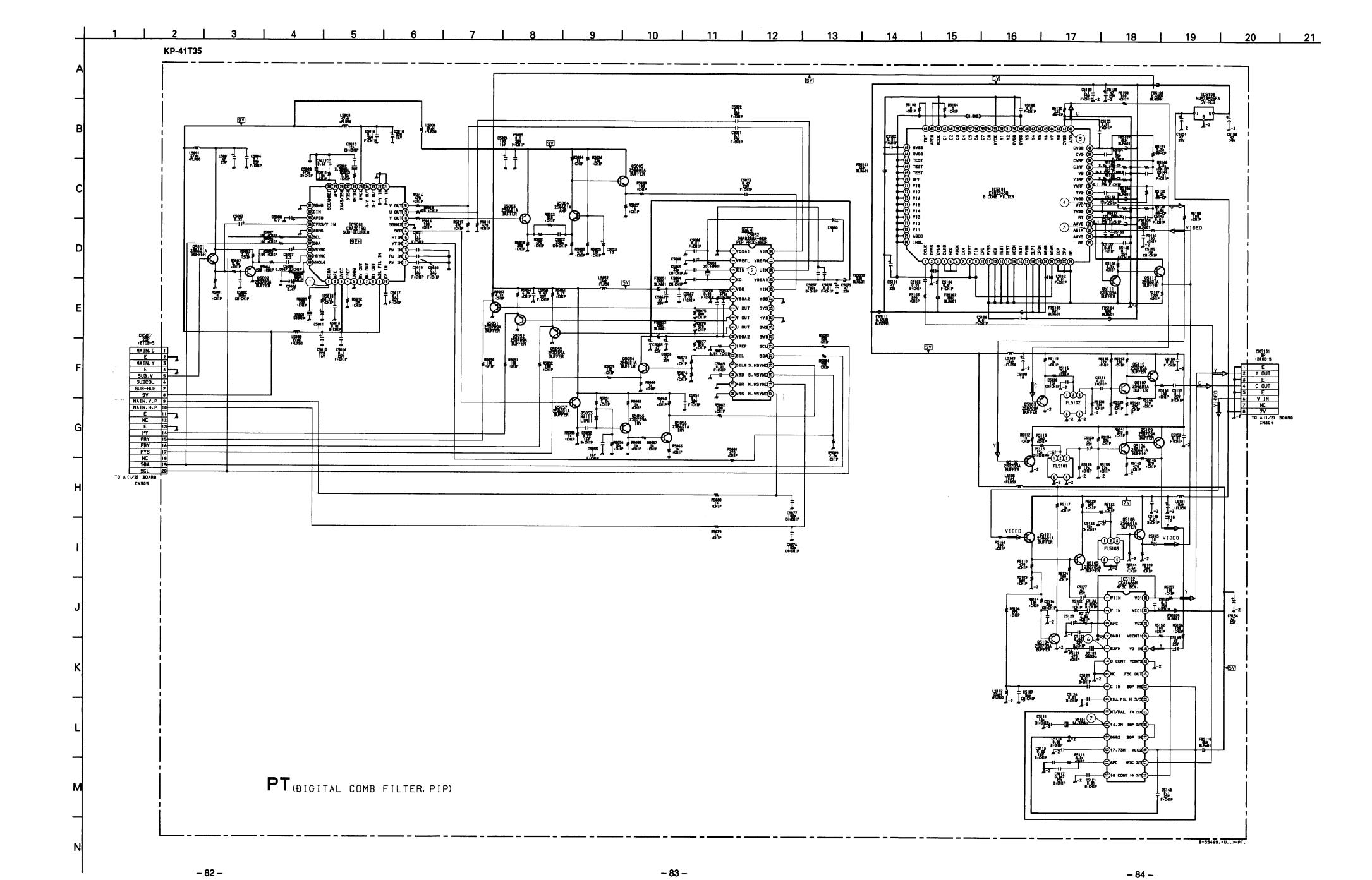


### **PT BOARD**

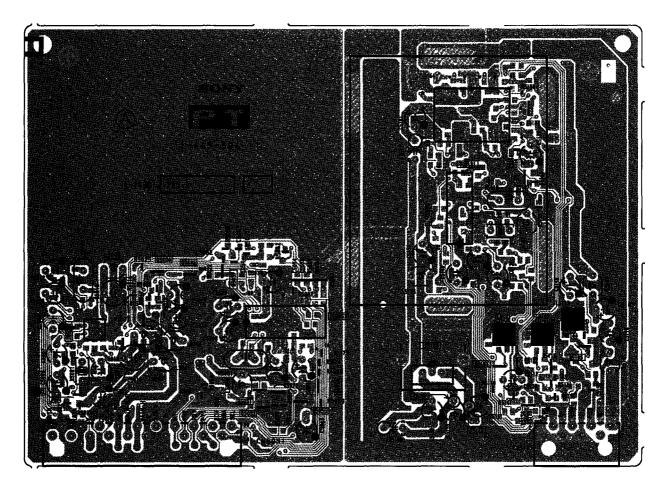
| REF.   | Pin<br>No.  | VOLTAGE | REF.   | Pin<br>No. | VOLTAGE |
|--------|-------------|---------|--------|------------|---------|
|        | 0           | 2.3     | IC5052 | 130        | 3.9     |
| 1      | @           | 4.1     | 100002 | <b>3</b>   | 2.2     |
|        | 0           | 0       |        | 0          | 2.4     |
|        | <b>(0)</b>  | 1.0     |        | 0          | 2.3     |
| l      | 0           | 3.8     |        | 3          | 2.3     |
|        | 13          | 4.5     |        | 8          | 0.5     |
|        | <b>③</b>    | 4.6     |        | 0          | 1.5     |
|        | <b>(9</b> ) | 0.1     |        | 8          | 2.6     |
|        | <b>(1)</b>  | 0.7     |        | <b>9</b>   | 0.9     |
|        | <b>(1)</b>  | 2.8     |        | 3          | 2.9     |
| IC5001 | <b>1</b>    | 2.9     | IC5101 | 3          | 1.8     |
|        | <b>29</b>   | 2.9     |        | 3          | 1.8     |
|        | <b>39</b>   | 2.4     |        | 39         | 0.9     |
|        | <b>39</b>   | 4.5     |        | 9          | 0       |
|        | <b>3</b>    | 3.3     |        | 39         | 0       |
|        | 3           | 3.6     |        | 39         | 0       |
|        | 39          | 4.8     |        | 0          | 0.9     |
|        | 9           | 4.8     |        | 6          | 5.0     |
|        | 39          | 4.1     |        | €          | 0       |
|        | 39          | 3.3     |        | 0          | 2.2     |
|        | <b>@</b>    | 0.7     |        | 0          | 2.0     |
|        | @           | 2.9     |        | 3          | 2.5     |
|        | <b>③</b>    | 2.4     |        | •          | 1.1     |
|        | 0           | 2.2     |        | (3)        | 0       |
|        | 0           | 0.4     |        | 0          | 4.8     |
|        | 1           | 0       |        | 0          | 3.1     |
|        | 0           | 1.9     | IC5102 | 13         | 4.4     |
|        | 1           | 0       | 105102 | 0          | 2.6     |
| IC5052 | 0           | -3.0    |        | 13         | 2.5     |
| 105052 | 0           | 0.1     |        | 1          | 4.0     |
|        | 1           | 0.7     |        | 0          | 3.2     |
|        | 1           | 0.1     |        | 1          | 3.9     |
|        | 20          | 0.5     | ĺ      | <b>8</b>   | 3.9     |
|        | <b>1</b>    | 4.8     |        | <b>1</b>   | 2.1     |
|        | 2           | 4.8     |        | <u>ق</u>   | 0       |
|        | 28          | 1.6     |        | <u> </u>   | 2.2     |
|        | 39          | 2.2     |        |            |         |

### **PT BOARD**

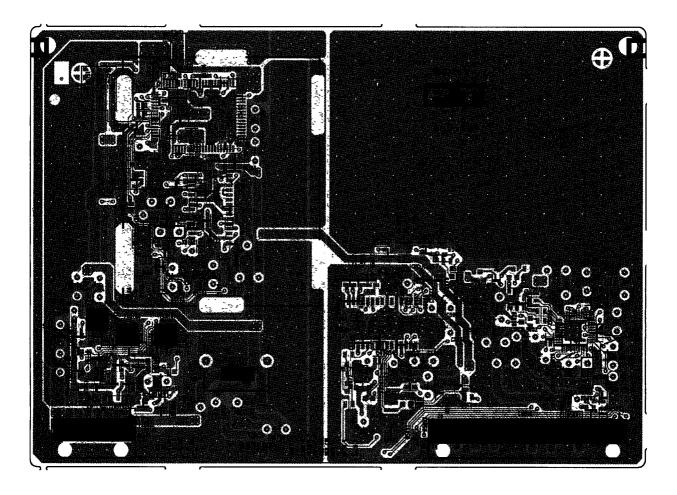
| REF.  |   | VOLTAGE | REF.  |   | VOLTAGE |
|-------|---|---------|-------|---|---------|
|       | Ε | 5.8     |       | Ε | 0       |
| Q5001 | ပ | 8.8     | Q5057 | O | 4.9     |
|       | В | 6.5     |       | В | 0       |
|       | Ε | 6.5     |       | Е | 1.9     |
| Q5002 | O | GND     | Q5101 | O | 5.0     |
|       | В | 5.8     |       | В | 2.5     |
|       | Е | 2.2     |       | ш | 1.8     |
| Q5003 | ပ | 8.5     | Q5102 | O | GND     |
|       | В | 2.8     |       | В | 0.9     |
|       | Ε | 2.2     |       | ш | 1.6     |
| Q5004 | С | 4.1     | Q5103 | ပ | GND     |
|       | В | 2.9     |       | В | 0.9     |
|       | Е | 3.5     |       | E | 1.5     |
| Q5005 | C | 8.5     | Q5104 | C | GND     |
|       | В | 4.1     |       | В | 0.8     |
|       | Е | 1.0     |       | Е | 2.6     |
| Q5051 | C | GND     | Q5105 | ပ | GND     |
|       | В | 0.4     |       | В | 1.9     |
|       | Е | 0.5     | Q5106 | ш | 1.7     |
| Q5052 | С | GND     |       | C | 4.4     |
|       | В | 0       |       | В | 2.4     |
|       | E | *       |       | Ε | 1.7     |
| Q5053 | С | *       | Q5107 | С | 4.4     |
|       | В | *       |       | В | 2.4     |
|       | Ε | 0       |       | E | 1.7     |
| Q5054 | ပ | 4.9     | Q5108 | C | 5.0     |
|       | В | 0       |       | В | 2.3     |
|       | E | 1.1     | Q5109 | Ε | 5.0     |
| Q5055 | C | GND     |       | С | 2.0     |
|       | В | 0.5     |       | В | 4.4     |
|       | E | *       |       | Ε | 5.0     |
| Q5056 | C | *       | Q5110 | C | 2.0     |
|       | В | *       |       | В | 4.4     |
|       |   |         |       |   |         |



### - PT BOARD - < Component Side>



### <Conductor Side>

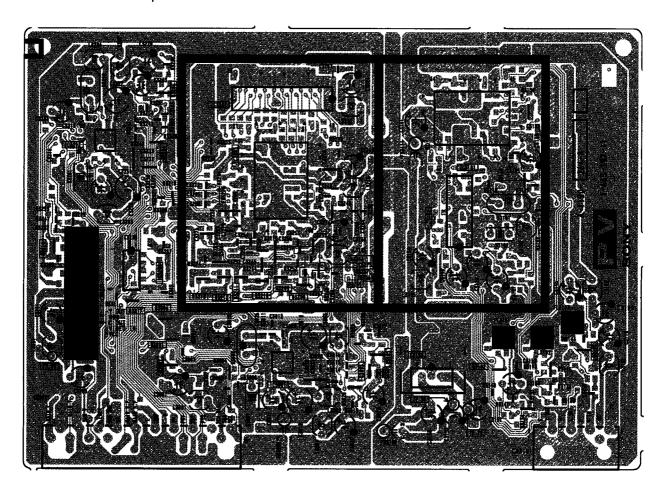


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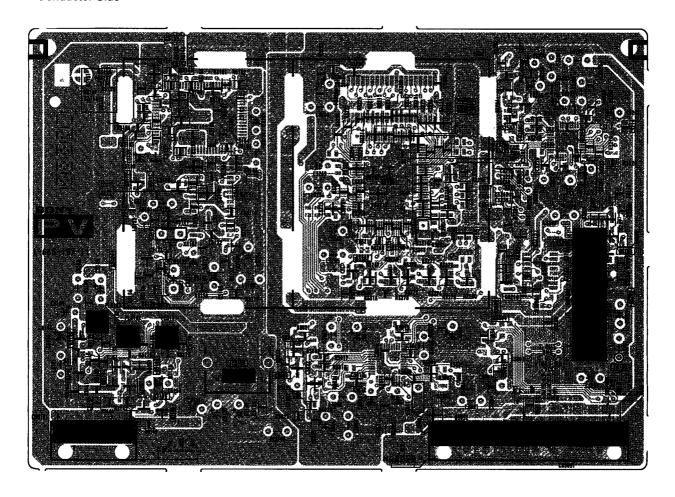
- : Pattern from the side which enables seeing.
- \*\*\*\* : Pattern of the rear side.



### - PV BOARD - < Component Side>

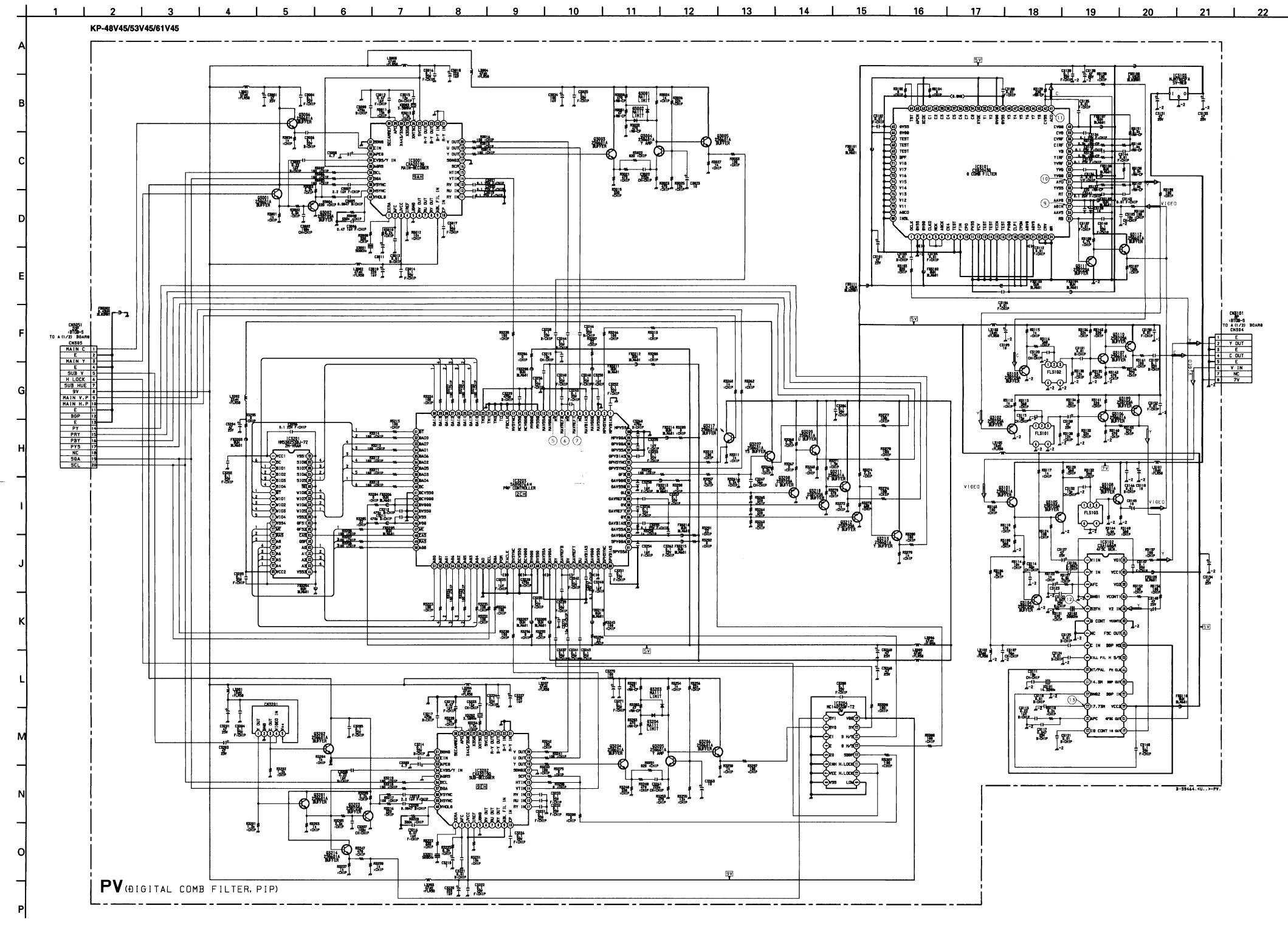


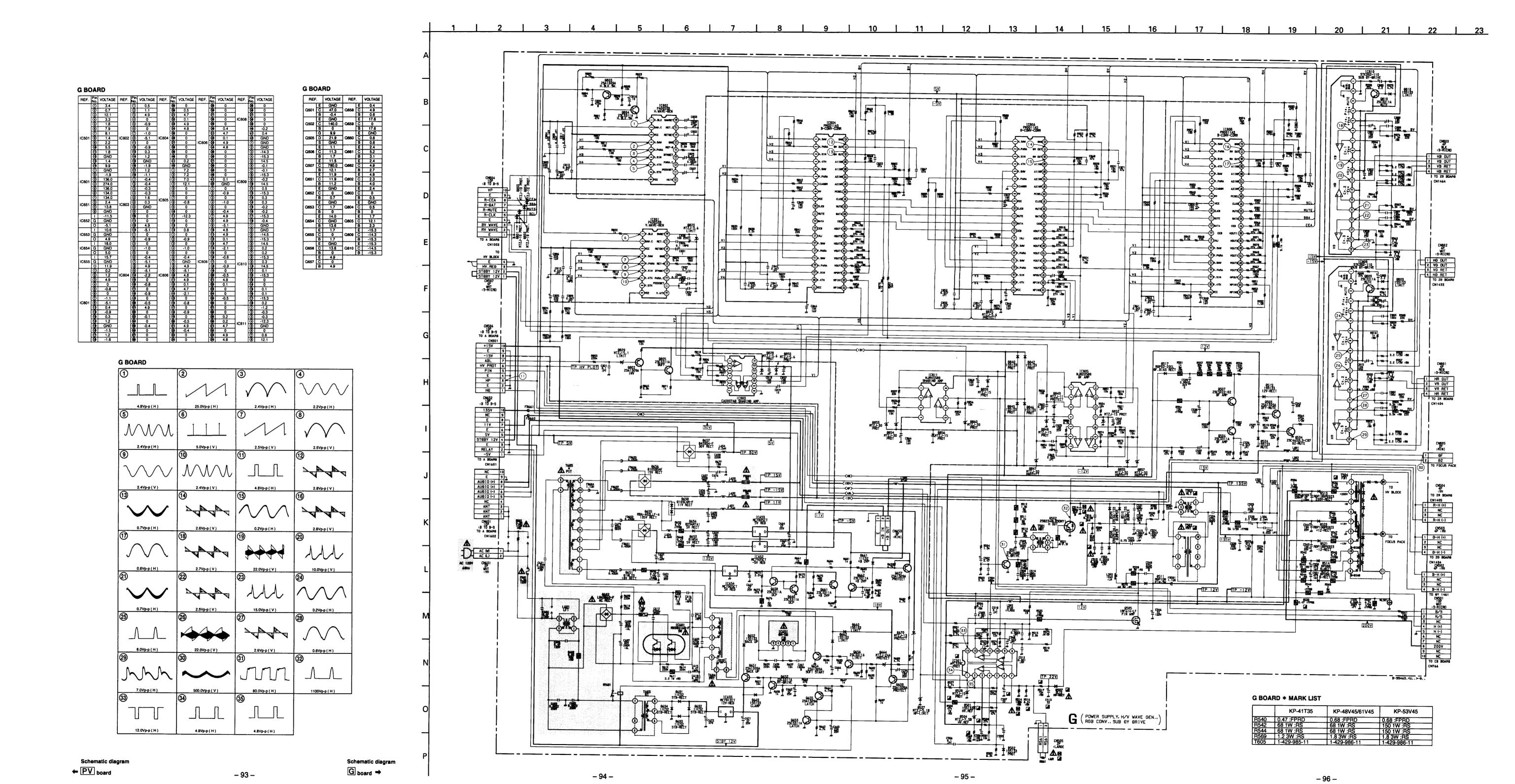
### <Conductor Side>



### Note:

- : Pattern from the side which enables seeing.
- 9:7//:: Pattern of the rear side.





POWER SUPPLY

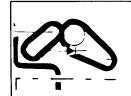
**- 97 -**



[POWER SUPPLY, H/V WAVE GEN, RGB CONV, SUB DY DRIVE]

# G BOARD

|       | _     |      |          |      |      |      |      |
|-------|-------|------|----------|------|------|------|------|
|       |       | Q506 | F-8      | D509 | F-4  | D691 | D-1  |
| IC    | ,     | Q507 | F-7      | D510 | F-4  | D692 | D-2  |
|       |       | Q651 | C-3      | D511 | E-7  | D693 | D-1  |
| IC501 | E8    | Q652 | A-6      | D513 | F-2  | D694 | D-1  |
| IC601 | A-3   | Q653 | A-6      | D514 | E-1  | D801 | E-11 |
| IC651 | A-5   | Q654 | A-5      | D515 | G-1  | D802 | E-11 |
| IC652 | B-6   | Q655 | A-6      | D517 | G-6  | D803 | E-11 |
| IC653 | C6    | Q656 | A-5      | D519 | F-8  | D804 | E-11 |
| IC654 | D-3   | Q657 | D-4      | D520 | G-2  | D820 | D-11 |
| IC655 | C-2   | Q658 | D-4      | D521 | F-3  | D828 | F-11 |
| IC801 | E-11  | Q659 | A-5      | D524 | F8   | D829 | G-11 |
| IC802 | E-9   | Q660 | C-4      | D527 | E-7  | D835 | C-8  |
| IC803 |       |      | D528     | E-7  | D840 | G-10 |      |
| IC804 | C-7   |      | Q662 C-4 |      | A-2  | D842 | G-10 |
| IC805 | F-9   | Q802 | G-11     | D651 | C-3  | D845 | G-10 |
| IC806 | C-9   | Q803 | F-10     | D652 | C-3  | D846 | G-10 |
| IC808 | C-11  | Q804 | E-10     | D653 | B6   | D847 | F-9  |
| IC809 | B-10  | Q805 | G-11     | D654 | B-6  | D848 | F-9  |
| IC810 | B-8   | Q809 | A-10     | D655 | C-4  | D849 | F-9  |
| IC811 | G-9   | Q810 | A-7      | D656 | B5   | D850 | F-11 |
|       |       |      |          | D657 | A-5  | D852 | G-9  |
| TRANS | ISTOR | DIO  | DE       | D658 | B-5  | D853 | G–9  |
|       |       |      |          | D660 | C-3  | D854 | G-9  |
| Q501  | E-4   | D501 | E-8      | D661 | D-5  | D855 | G-10 |
| Q502  | E-4   | D502 | E-8      | D662 | A-5  | D856 | G-10 |
| Q503  | F8    | D504 | D-8      | D664 | A-5  | D857 | G-9  |
| Q504  | G–8   | D507 | E-8      | D669 | C-3  | D859 | G-9  |
| Q505  | E-7   | D508 | F-5      | D670 | A-5  | D860 | G-9  |



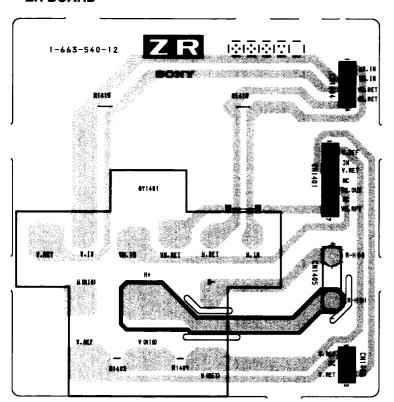
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in

REG!

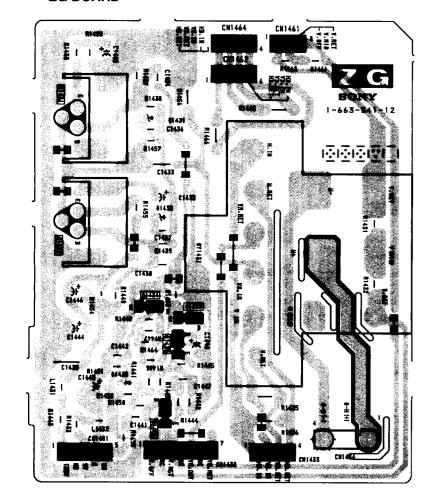
**- 98 -**

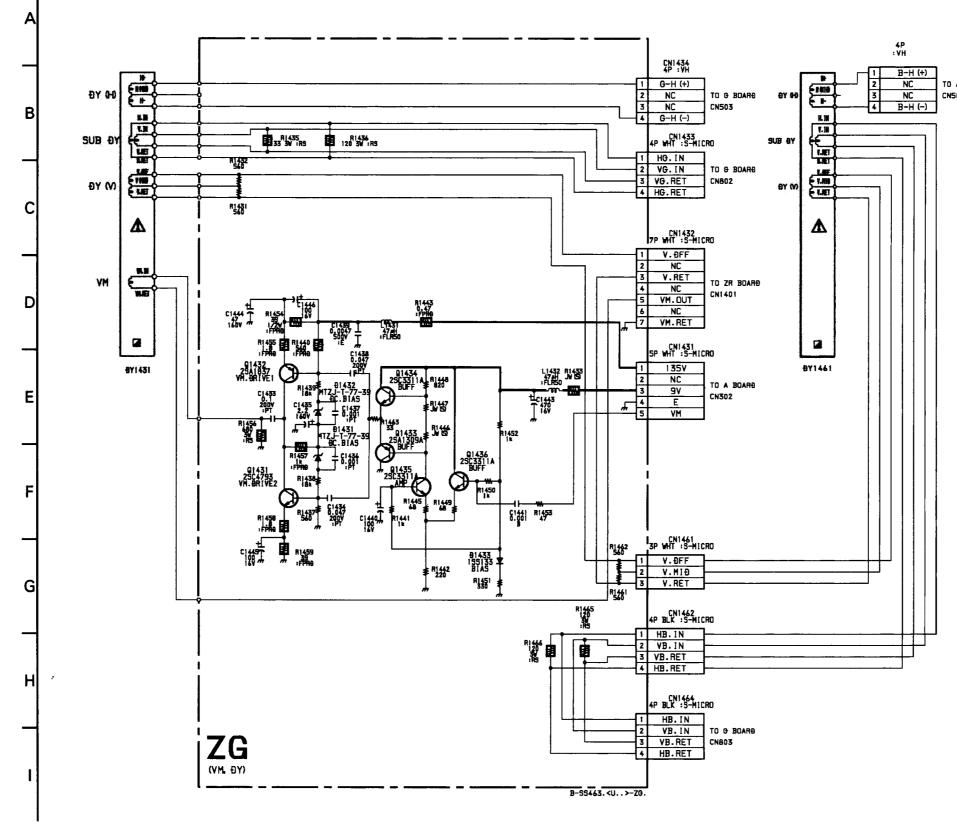


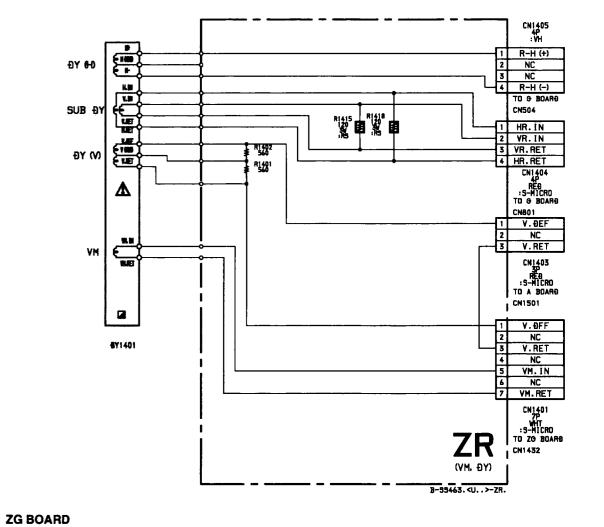
# - ZR BOARD -



## - ZG BOARD -







10 | 11 | 12 | 13 | 14 | 15 | 16

# REF. VOLTAGE

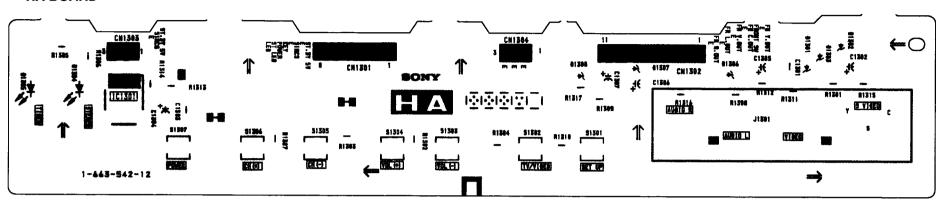
| - | NEF   | • | VOLINGE |
|---|-------|---|---------|
| 1 |       | E | 0.5     |
| 1 | Q1431 | ပ | 67.2    |
| ı |       | В | 0.9     |
| ı |       | E | 138.4   |
|   | Q1432 | С | 67.2    |
| l |       | В | 134.4   |
|   |       | E | 5.8     |
| 1 | Q1433 | O | GND     |
| l |       | В | 5.7     |
| I |       | Ε | 5.8     |
| I | Q1434 | С | 9.0     |
| l |       | В | 5.7     |
| I |       | E | 2.1     |
| l | Q1435 | O | 5.7     |
| l |       | В | 2.7     |
| I |       | E | 2.1     |
| ı | Q1436 | C | 9.0     |
| l |       | В | 2.7     |
| - |       |   |         |

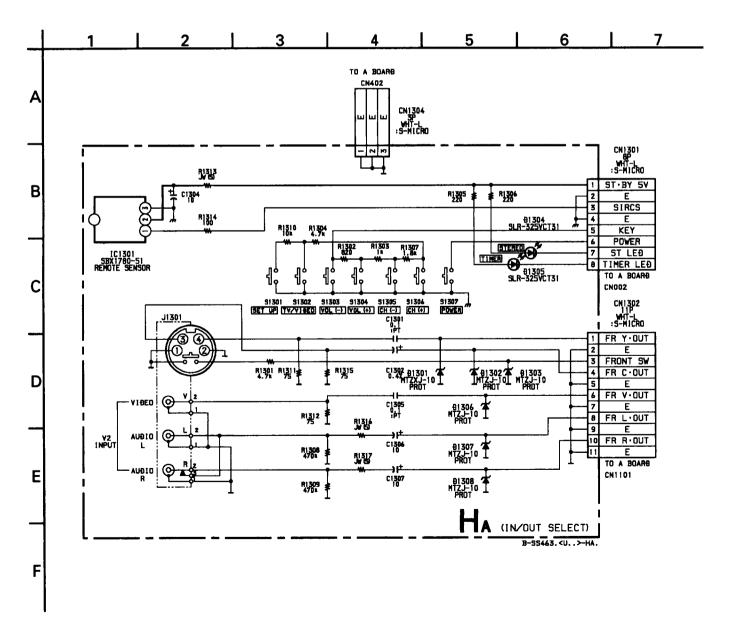
# NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



## - HA BOARD -



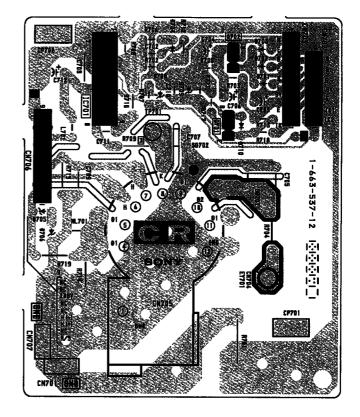


#### **HA BOARD**

| REF.   | Pin<br>No. | VOLTAGE |
|--------|------------|---------|
|        | 0          | 5.0     |
| IC1301 | @          | 5.0     |
|        | 3          | GND     |



## - CR BOARD -





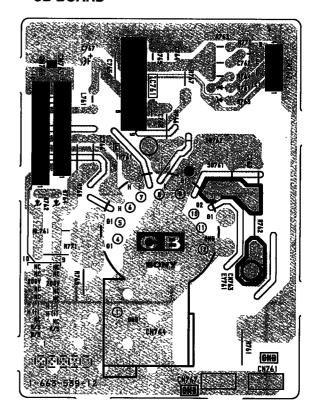
#### NOTE:

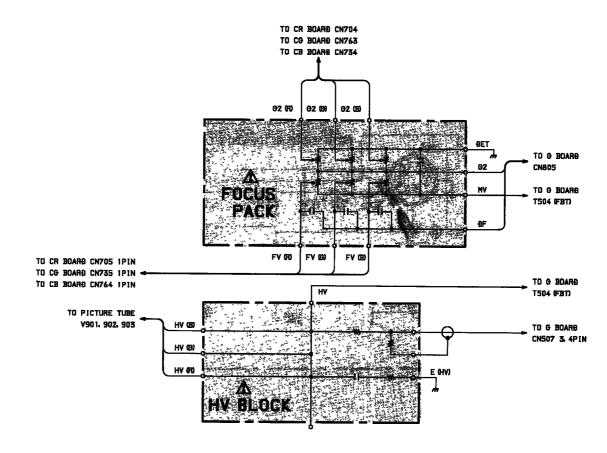
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

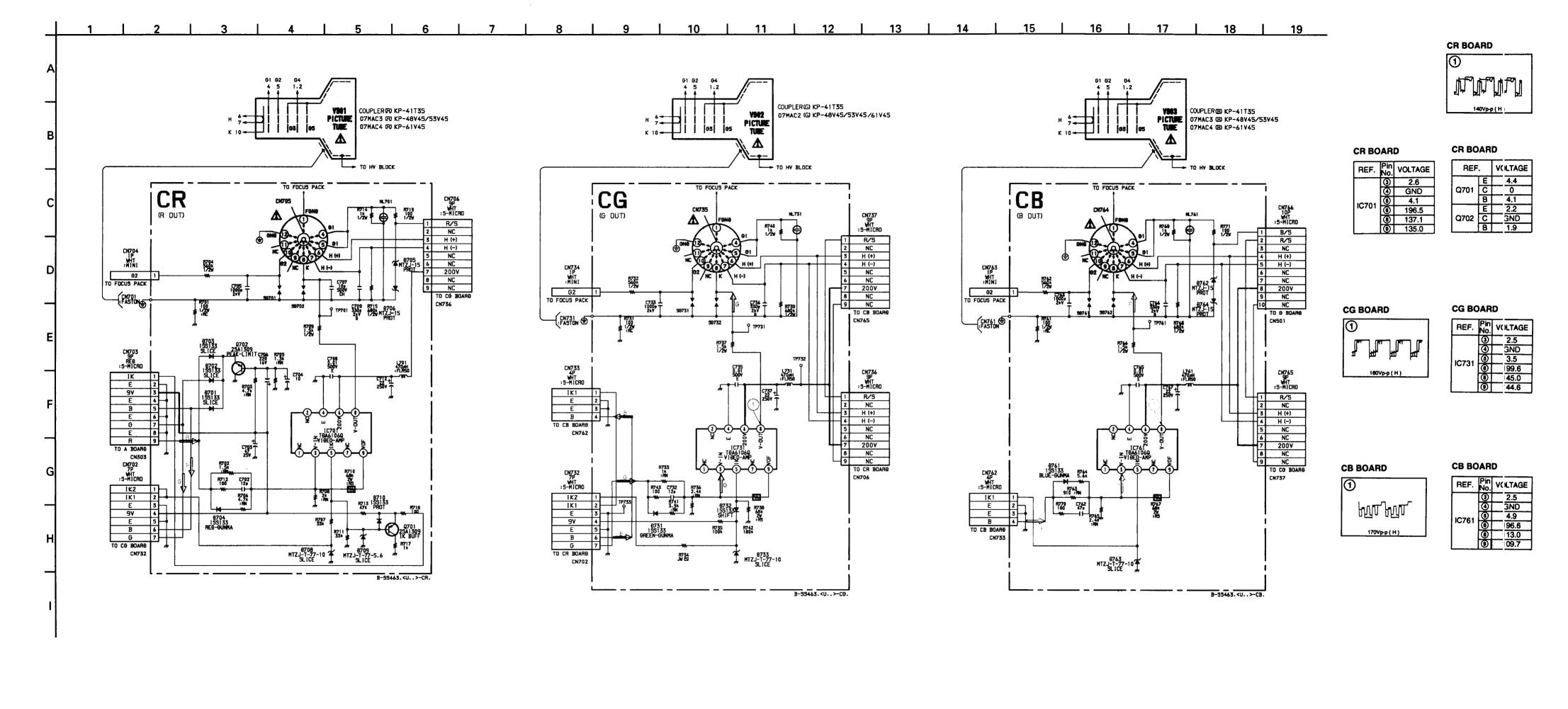
#### - CG BOARD -

# TO SEE THE SECOND SECON

## - CB BOARD -

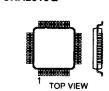






#### 6-5. SEMICONDUCTORS

# BA14741F **CA0007AM** RABBRARARA 14pin SOP BH3856FS-E2 SDA9288X ARRARARARA TOP VIEW 32pin SOP **CA0007AD** NJM2058D μPC339C TOP VIEW 14pin DIP **CXA1686M ABBRARABRA** TOP VIEW 30pin SOP CXA2019Q 40pin QFP







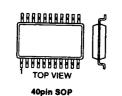
## CXD2043Q



#### CXP85112B-613S CXP85856-005S



HM538253BJ-7Z TC528257J-80 (EL)



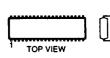
LM7805CT MC7805CT MC7812CT NJM78M05FA PQ09RF21 TA7805S **TA7812S** 



MC7905CT

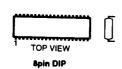


MM1313AD PM0011AS

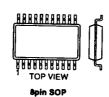


42pin DIP

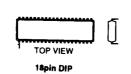
M5218AP NJM4558D



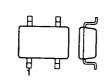
# NJM4558M-T2 ST24C04FM6TR μPC4558G2 X24C04S8



PA0053B



PST9143NL

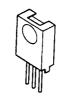


5pin chip





SBX1780-51



STK392-110



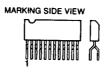
STV9379



TDA7262



TDA6106Q

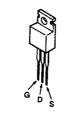


9pin ZIP





IRF614 IRF614-LF



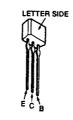
MC780CT 2SA1837 2SC4793



MX0841-AB-F



2SA1175-HFE 2SA1309A-QRSTA 2SC2785-HFE 2SC3311A-QRSTA



2SC2688-LK



2SC4632LS-CB7

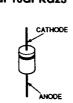


2SD2348 (LB SONY-1)

DTZ10B MA111 UDZ-TE-17-10B



**D1NL20** EL1Z GP08D GP08DPKG23 RGP02-20EL-6394 RGP10GPKG23



D1NS4 HZS9.1NB2

MTZJ-30A MTZJ-33B MTZJ-7.5B

MTZJ-T-77-10

MTZJ-T-11

MTZJ-T-15

MTZJ-T-20A

MTZJ-T-24A

MTZJ-T-3.6

MTZJ-T-30

MTZJ-T-33B MTZJ-T-39 MTZJ-T-5.1

MTZJ-T-5.1B MTZJ-T-5.6

MTZJ-T-5.6B

MTZJ-T-7.5B MTZJ-T-9.1B RD10ESB2 RD11ES-B2

RD20ES-B2

RD3.6ES-B1 RD39ES-B2 RD5.1ES-B1

RD5.1ES-B2

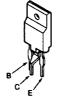
RD5.6ESB2

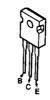
11ES2

RD24ES-B

MTZJ-T-77-10B









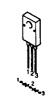
D2S4MF

D2SMTA1

D4SBS4-F D10SBS4F LN4SB60 RBA-402LLF-A



D10SC4M



ERC06-15S 1SS133T-77



ERD29-08J



**SLR-325VCT31** 



# **SECTION 7 EXPLODED VIEWS**

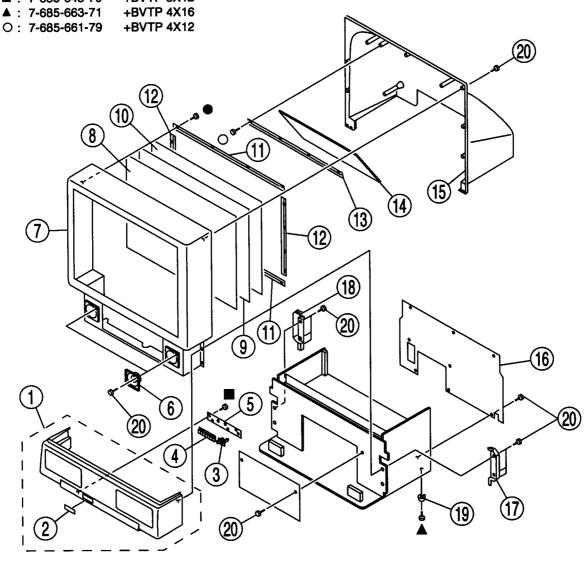
#### NOTE:

• Items with no part number and no description are not stocked because they are seldom required for routine service.

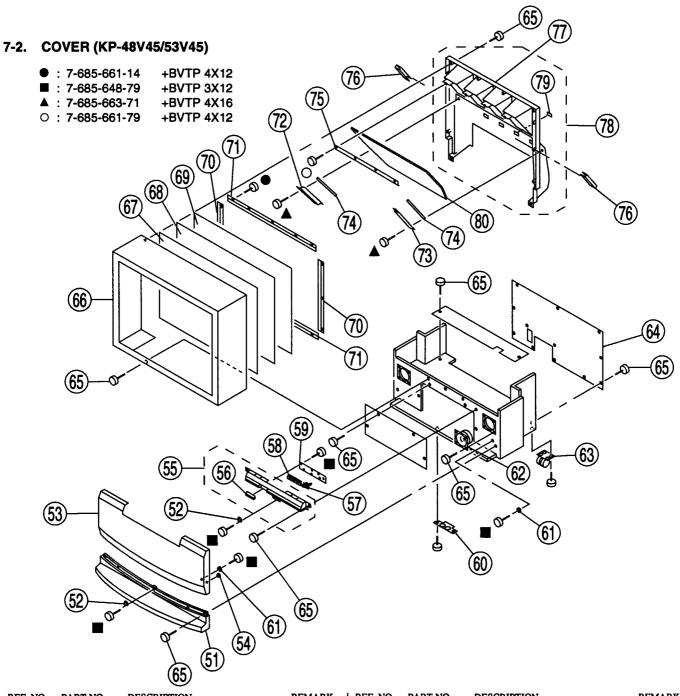
- 7-1. COVER (KP-41T35)
  - : 7-685-661-14 +BVTP 4X12 **■**: 7-685-648-79 **+BVTP 3X12 ▲**: 7-685-663-71
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque  $oldsymbol{\Lambda}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



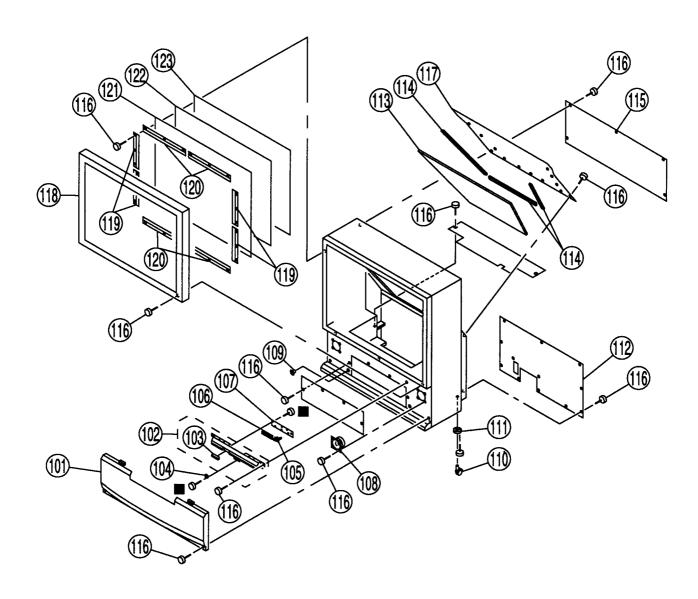
| REF. NO                | PART NO.                                     | DESCRIPTION   | REMARK | REF. NO.                     | PART NO.   | DESCRIPTION  | REMARK |
|------------------------|--|---|--------|------------------------------|--|--|--------|
| 1<br>2<br>3<br>4<br>5  | 4-057-605-21<br>4-057-604-01<br>4-057-603-01 | CONTROL PANEL ASSY (PTG) (41<br>DOOR, CONTROL<br>GUIDE, LED / IR<br>BUTTON, MULTI<br>HA BOARD, COMPLETE | ) 21   | 12 *                         | * 4-059-007-01<br>* 4-059-011-01<br>* 4-037-351-01<br>4-047-861-01<br>X-4032-607-1 | HOLDER (H4.4), SCREEN<br>HOLDER (H4.0), SCREEN<br>HOLDER, MIRROR<br>MIRROR (41), REFLECTION<br>COVER, MIRROR |        |
| 6<br>7<br>8<br>9<br>10 |  | SPEAKER (10CM) BEZNET ASSY (41) PLATE (L), DIFFUSION PLATE (F), DIFFUSION SCREEN (41), CONTRAST         |        | 16 '<br>17<br>18<br>19<br>20 | * 4-059-014-01<br>4-057-601-01<br>4-057-600-01<br>4-057-611-01<br>4-041-164-11     | BOARD (41), REAR<br>CAP (R), CONTROL PANEL<br>CAP (L), CONTROL PANEL<br>FOOT<br>SCREW (4X20), TAPPING        |        |



| REF. N   | O. PART NO.                  | DESCRIPTION               | REMARK | REF. NO | . PART NO.                   | DESCRIPTION  | REMARK     |
|----------|------------------------------|---------------------------|--------|---------|------------------------------|--|------------|
| 51<br>52 | 4-057-608-01<br>4-843-806-00 | SKIRT, FRONT<br>STRIKE    |        | 67      | 4-036-466-11<br>4-058-454-11 | PLATE (L), DIFFUSION (53V45)<br>PLATE (L), DIFFUSION (48V45) |            |
| 53       |                              | GRILLE ASSY, SPEAKER      |        |         | 4-030-434-11                 | PEATE (E), DIFFUSION (46 V43)                                |            |
| 54       | 4-838-438-00                 | LATCH                     |        | 68      | 4-036-469-11                 | PLATE (F), DIFFUSION (53V45)                                 |            |
| 55       |                              | PANEL ASSY, CONTROL       | 56     |         | 4-058-455-11                 | PLATE (F), DIFFUSION (48V45)                                 |            |
|          |                              |                           |        | 69      | 4-058-894-11                 | <b>SCREEN (53), CONTRAST (53V45)</b>                         |            |
| 56       | 4-057-605-01                 | DOOR, CONTROL             |        |         | 4-058-932-01                 | <b>SCREEN (48), CONTRAST (48V45)</b>                         |            |
| 57       | 4-057-604-01                 |                           |        | 70      | <b>*</b> 4-058-892-01        | HOLDER (S), SCREEN (48V45)                                   |            |
| 58       | 4-057-603-01                 |                           |        |         |                              |  |            |
| 59       |                              | HA BOARD, COMPLETE        |        |         | <b>*</b> 4-058-893-01        | HOLDER (L), SCREEN   |            |
| 60       | 4-048-175-01                 | FOOT, PLASTIC             |        |         | * 4-051-790-02               | HOLDER, MIRSD (L)  |            |
|          |                              |                           |        |         | <b>*</b> 4-051-789-02        | HOLDER, MIRSD (R)  |            |
| 61       | 4-058-745-01                 | VELCRO                    |        |         | <b>*</b> 4-049-098-01        | CUSHION  |            |
| 62       | 1-505-426-11                 | SPEAKER (10.6CM)          |        | 75      | <b>*</b> 4-037-351-01        | HOLDER, MIRROR   |            |
| 63       | 4-040-755-01                 | CASTER (DIA. 30)          |        |         |                              |  |            |
| 64       | <b>*</b> 4-057-844-01        | BOARD (53), REAR (53V45)  |        | 76      | 4-033-775-41                 | PROTECTOR, MIRROR (53V45)                                    |            |
|          | * 4-058-556-01               | BOARD (48), REAR (48V45)  |        |         | <b>*</b> 4-057-610-01        | COVER, MIRROR (48V45)  |            |
|          |                              |                           |        | 78      | X-4032-620-1                 | COVER ASSY, MIRROR (53V45)                                   | <i>7</i> 9 |
| 65       | 4-041-164-11                 | SCREW (4X20), TAPPING     |        | 79      | 4-048-150-01                 | CAP, HOLE  |            |
| 66       | X-4032-999-2                 | BEZNET ASSÝ (53V) (53V45) |        | 80      | 4-058-889-01                 | MIRROR (53), REFLECTION (53V4                                | 5)         |
|          | X-4034-438-1                 | BEZNET ASSY (48) (48V45)  |        |         |                              | • •  | •          |
|          |                              |                           |        |         | 4-058-930-01                 | MIRROR (48), REFLECTION (48V4                                | 5)         |
|          |                              |                           |        |         |                              |  |            |

# 7-3. COVER (KP-61V45)

# ■ : 7-685-648-79 +BVTP 3X12



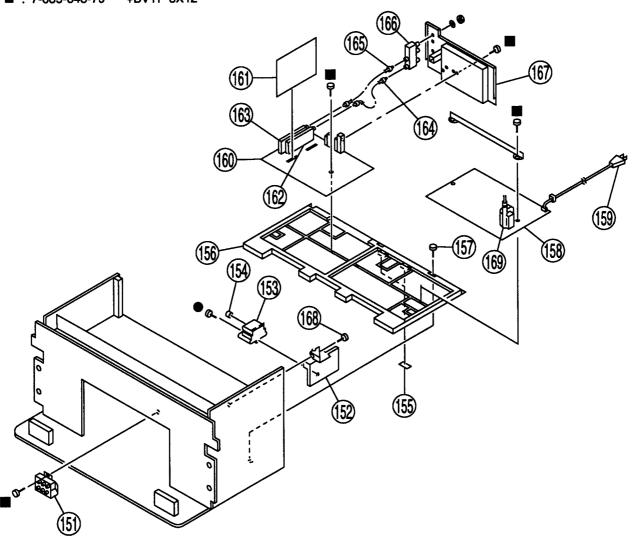
| REF. N | O. PART NO.    | DESCRIPTION          | REMARK | REF. N | O. PART NO.    | DESCRIPTION             | REMARK |
|--------|----------------|----------------------|--------|--------|----------------|-------------------------|--------|
| 101    | X-4034-529-1   | GRILLE ASSY, SPEAKER |        | 112    | * 4-058-640-01 | BOARD, REAR             |        |
| 102    | X-4034-499-1   | PANEL ASSY, CONTROL  | 103    | 113    | 4-058-871-01   | MIRROR (61), REFLECTION |        |
| 103    | 4-057-605-01   | DOOR, CONTROL        |        | 114    | 4-059-099-01   | FORM, SPACER            |        |
| 104    | 4-843-806-00   | STRIKE               |        | 115    | * 4-058-641-01 | COVER, TOP REAR         |        |
| 105    | 4-057-604-01   | GUIDE, LED / IR      |        |        |                |                         |        |
|        |                |                      |        | 116    | 4-041-164-11   | SCREW (4X20), TAPPING   |        |
| 106    | 4-057-603-01   | BUTTON, MULTI        |        | 117    | * 4-058-642-01 | BOARD, MIRROR           |        |
| 107    | * A-1372-304-A | HA BOARD, COMPLETE   |        | 118    | X-4032-762-1   | FRAME ASSY, SCREEN      |        |
| 108    | 1-505-426-11   | SPEAKER (10.6CM)     |        | 119    | 4-044-727-01   | HOLDER (S), SCREEN      |        |
| 109    | 4-838-438-00   | LATCH                |        | 120    | 4-044-726-01   | HOLDER (L), SCREEN      |        |
| 110    | 4-040-508-01   | CASTER               |        |        |                |                         |        |
|        |                |                      |        | 121    | 4-040-124-11   | PLATE (L), DIFFUSION    |        |
| 111    | 4-030-850-01   | SOCKET, CASTER       |        | 122    | 4-040-123-11   | PLATE (F), DIFFUSION    |        |
|        |                |                      |        | 123    | 4-044-725-11   | SCREEN (61), CONTRAST   |        |

The components identified by shading and mark \( \Lambda \) are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque 🛦 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. 

# 7-4. CHASSIS (KP-41T35)

• : 7-685-661-14 **+BVTP 4X12 1**: 7-685-648-79 **+BVTP 3X12** 



| REF. N | O. PAR               | T NO.   | DESCRIPT   | ION        | REMARK        |
|--------|----------------------|---------|------------|------------|---------------|
| 151    | <b>&amp; 1-223</b> - | 925-12  | RESISTOR   | ASSY (HIG  | H-VOLTAGE)    |
| 152    | * 4-057-             |         | BRACKET    |            |               |
| 153    | Δ8-598-              |         |            | SY, HIGH-V | OLTAGE        |
| 154    |                      |         | CAP (Z), R |            |               |
| 155    | * 3-551-             | 305-21  | CUSHION,   | PANEL      |               |
| 156    | * 4-057-             | 594-01  | BRACKET    | . MAIN     |               |
| 157    | 4-052-               | 894-01  | SCREW (4)  | X20), HEAD | TAPPING       |
| 158    | * A-131              | 6-317-A | G BOARD,   | COMPLETE   | ]             |
| 159    |                      |         |            |            | NOISE FILTER) |
| 160    | * A-129              | 8-072-A | A BOARD,   | COMPLETE   | 3             |

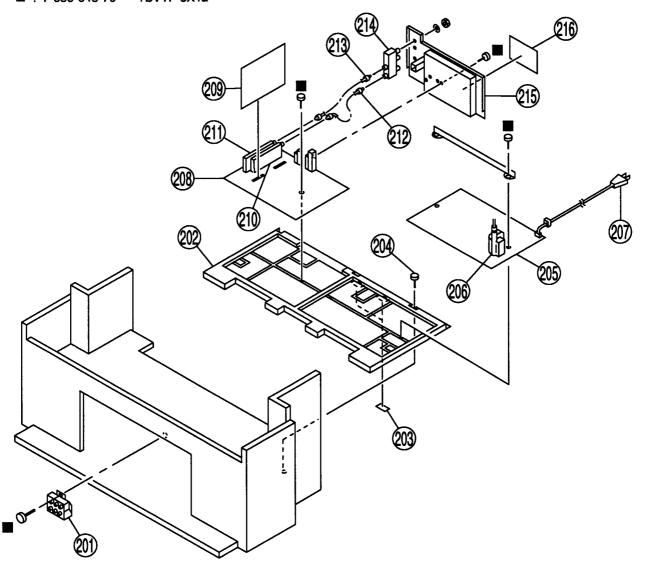
| REF. NO | PART NO.       | DESCRIPTION                        | REMARK                                  |
|---------|----------------|------------------------------------|---|
|         |                | PT BOARD, COMPLETE                 |   |
|         |                | TUNER BTF-LA402<br>TUNER BTF-WA404 |   |
| 164     | * 1-557-056-41 | CABLE, P-P                         | *************************************** |
| 165     | 1-556-945-21   | CABLE, P-P                         |   |
| 166     | 8-598-414-00   | ANTENNA SWITCH AS-                 | -2F                                     |
| 167     | 4-057-595-21   | TERMINAL BOARD                     |   |
| 168     | 4-041-164-11   | SCREW (4X20), TAPPIN               |   |
| 169 (   | 51-453-248-11  | TRANSFORMER ASSY.                  | FLYBACK<br>(NX-4007//X4T4)              |

The componants identified by shading and mark  $\triangle$  are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

# 7-5. CHASSIS (KP-48V45/53V45/61V45)

+BVTP 3X12 **1** : 7-685-648-79



| REF. N       | O. PART NO.                             | DESCRIPTION         | REMARK                                      | REF. NO | . PART NO.     | DESCRIPTION         | REMARK       |
|--------------|---|---------------------|---|---------|----------------|---------------------|--------------|
|              |   |                     |   |         |                |                     |              |
| 201          | Δ1-223-925-12                           | RESISTOR ASSY (HIGH | H-VOLTAGE)                                  | 208     | * A-1298-067-A | A BOARD, COMPLETE   |              |
| 202          | * 4-057-594-01                          | BRACKET, MAIN       |   | 209     | * A-1190-264-A | PV BOARD, COMPLETE  |              |
| 203          | * 3-551-305-21                          |                     |   |         |                |                     |              |
|              |   |                     |   |         |                |                     |              |
| 204          | 4-052-894-01                            |                     |   |         |                | TUNER BTF-LA402     |              |
| 205          | * A-1316-313-                           | A G BOARD, COMPLETE | (53V45)                                     | 211     | 8-598-340-00   | TUNER BTF-WA404     |              |
|              |   |                     | (   |         | * 1-557-056-41 | CABLE, P-P          | ************ |
|              | * |                     | /40***46464***                              |         |                |                     |              |
|              | * A-1316-314-                           | A G BOARD, COMPLETE | (48V45/61V45)                               | 213     | 1-556-945-21   | CABLE, P-P          |              |
| 2006         | A 1-453-238-11                          | TRANSFORMER ASSY    | FLYBACK                                     | 214     | 8-598-414-00   | ANTENNA SWITCH AS-2 | 2F           |
|              |   |                     | (NX/4007//X4A4)                             |         |                |                     | -            |
| 207          | A 1 760 927 11                          | CORD. POWER(WITH I  | CAICE EN TEDA                               | 215     | 4-057-595-11   | TERMINAL BOARD      |              |
| ************ |   |                     | 334536 * ********************************** |         |                |                     |              |
|              |   |                     |   | 216     | 4-058-896-01   | LABEL, TERMINAL     |              |

The componants identified by shading and mark A are critical for safety.

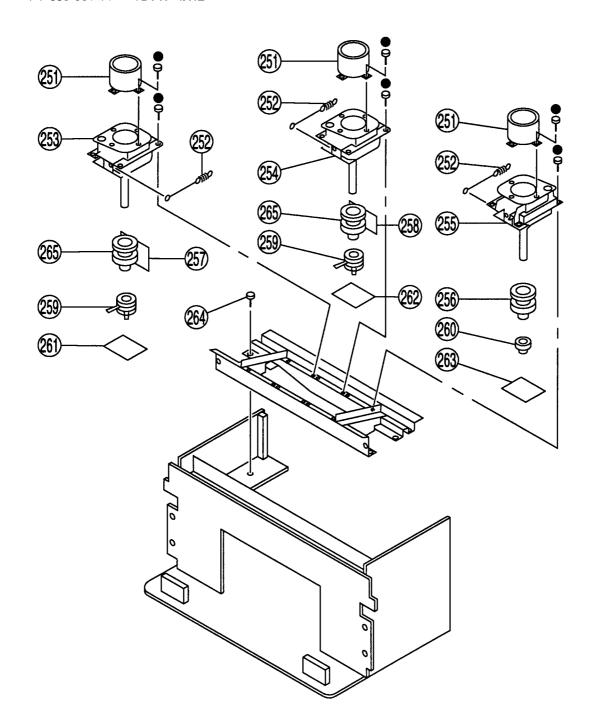
Replace only with part number specified.

William Committee

Les composants identifies par une trame et une marque \(\Delta\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. 

# 7-6. PICTURE TUBE (KP-41T35)

+BVTP 4X12 • : 7-685-661-14



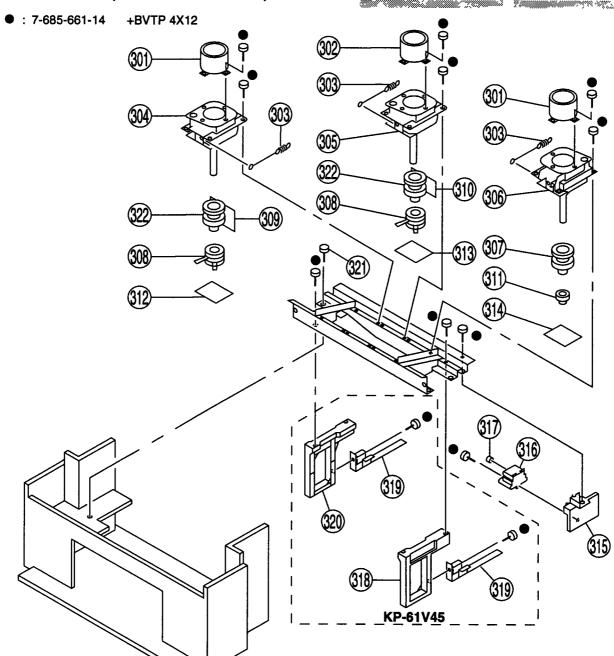
| 251 4-056-258-01 LENS (DELTA 78) 258 *A-1390-683-A ZG BOARD, COMP 252 4-057-007-01 SPRING, TENSION 259 A 1-452-790-21 NECK ASSY   | PLETE                         |
|---|-------------------------------|
| 253 AA-1501-086-A COUPLER (R) ASSY, PICTURE TUBE 260 1-452-909-11 MAGNET ASSY, 4  |                               |
| 255 A A-1301-088 A COUPLER (B) ASSY PICTURE TUBE 260 A 1-451-455-21 DEFLECTION YOKE (B) 257 * A-1390-682-A ZR BOARD, COMPLETE 261 * A-1331-670-A CR BOARD, COMPLETE 262 * A-1331-671-A CG BOARD, COMPLETE 263 * A-1331-672-A CB BOARD, COMPLETE 264 4-052-894-01 SCREW (4X20), HE 265 A 1-451-454-11 DEFLECTION YOR | PLETE<br>PLETE<br>EAD TAPPING |

The componants identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

specified.

Les composants identifies par une trame et une marque \(\Lambda\) sont critiques pour la securte. Ne les remplacer que par une piece portant le numero specifie.

# 7-7. PICTURE TUBE (KP-48V45/53V45/61V45)



| REF. NO                                 | PART NO.                                | DESCRIPTION                      | REMARK                                  | REF. NO. | PART NO.     | DESCRIPTION                    | REMARK |
|---|---|----------------------------------|---|----------|--------------|--------------------------------|--------|
| 301                                     | 4-040-131-01                            | LENS (LINNIT POINT 6) (61V45)    | )                                       | 309      | A-1390-682-A | ZR BOARD, COMPLETE             | ı      |
|   | 4-056-258-01                            | LENS (DELTA 78) (48V45/53V45     | )                                       | 310 *    | A-1390-683-A | ZG BOARD, COMPLETE             | •      |
| 302                                     | 4-040-131-21                            | LENS (LINNIT PÓINT 6) (61V45)    | ĺ                                       | 311      |              | MAGNET ASSY, 4 POLE            |        |
|   | 4-056-258-01                            | LENS (DEL TA 78) (48V45/53V4     | 5)                                      | ļ        |              | ,                              |        |
| 303                                     | 4-048-142-01                            | SPRING, TENSION                  | •                                       | 312 *    | A-1331-670-A | CR BOARD, COMPLETE             |        |
|   |   |                                  |   |          |              | CG BOARD, COMPLETE             |        |
| 304                                     | 1 8-733-498-05                          | PICTURE TUBE 07MAC3(R) (LC       | NG NECK)                                |          |              | CB BOARD, COMPLETE             |        |
|   |   | (GA)                             | (48V45/53V45)                           |          | 4-057-596-01 | BRACKET, HV                    |        |
|   |   | PICTURE TUBE 07MAC4(R) (GC       |   | 316 A    | 8-598-955-11 | BLOCK ASSY, HIGH-VC            | LTAGE  |
|   |   | PICTURE TUBE 07MAC2(G)(GC        |   |          |              |                                |        |
| 306                                     | £8-733-497-05                           | PICTURE TUBE 07MAC3(B) (LO       | NG NECK)                                | 317      | 4-373-137-01 | CAP (Z), RUBBER                |        |
|   |   | (GA)                             | (48V45/53V45)                           | 318      | 4-057-613-01 | <b>BOARD (R), SIDE (61V4)</b>  | 5)     |
|   | £8-733-507-05                           | PICTURE TUBE (7MAC4(B) (61)      | V45)                                    | 319      | 4-058-638-01 | STAY, CHASSIS (61V45)          | ı Î    |
|   |   |                                  |   | 320      | 4-057-612-01 | <b>BOARD (L), SIDE (61 V45</b> | 5)     |
|   | <u>1</u> 11-451-455-21<br>51-452-790-21 | DEFLECTION YOKE (B)<br>NECK ASSY | 1.2                                     | 321      | 4-052-894-01 | SCREW (4X20), HÈAD T           | ÁPPING |
| *************************************** |   | 1540-D. 0497.1                   | 3000 × 30000000000000000000000000000000 | 322 A    | 1-451-454-11 | DEFLECTION YOKE (R)            | (G)    |

# PT

# SECTION 8 ELECTRICAL PARTS LIST

NOTE:

Les composants identifies par une trame et une marque  $\Lambda$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number specified.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

#### RESISTORS

- All resistors are in ohms
- F: nonflammable
- CAPACITORS PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

|        |      |              |                         |               |         |        |          | piec         | ise include the be  | aru name.     | •     |        |
|--------|------|--------------|-------------------------|---------------|---------|--------|----------|--------------|---------------------|---------------|-------|--------|
| REF. N | O. P | ART NO.      | DESCRIPTION             |               |         | REMARK | REF. NO. | PART NO.     | DESCRIPTION         |               | 1     | REMARK |
|        |      |              |                         |               |         |        |          |              |                     |               | •     |        |
|        | * 4  | A-1190-265-A | PT BOARD, CO            | )MPLETE (     | (KP-417 | r35)   | C5080    | 1-126-960-11 | ELECT               | 1MF           | 20%   | 50V    |
|        |      |              | ******                  | ******        |         |        | C5101    | 1-104-664-11 | ELECT               | 47MF          | 20%   | 25V    |
|        |      |              |                         |               |         |        | C5102    | 1-163-031-11 | <b>CERAMIC CHIP</b> | 0.01MF        |       | 50V    |
|        | 4    | -382-854-11  | SCREW (M3X10            | ), P, SW (+)  | )       |        | i        |              |                     |               |       |        |
|        |      |              |                         |               |         |        | C5103    | 1-164-232-11 | CERAMIC CHIP        | 0.01MF        | 10%   | 50V    |
|        |      |              |                         |               |         |        | C5104    | 1-163-031-11 | <b>CERAMIC CHIP</b> | 0.01MF        |       | 50V    |
|        |      |              | <capacitor></capacitor> |               |         |        | C5105    | 1-163-227-11 | CERAMIC CHIP        | 10PF          | 0.5PF | 50V    |
|        |      |              |                         |               |         |        | C5106    | 1-163-031-11 | <b>CERAMIC CHIP</b> | 0.01MF        |       | 50V    |
| C5001  | 1    | -104-664-11  | ELECT                   | 47MF          | 20%     | 25V    | C5107    | 1-163-245-11 | <b>CERAMIC CHIP</b> | 56PF          | 5%    | 50V    |
| C5002  | . 1  | -163-251-11  | <b>CERAMIC CHIP</b>     | 100PF         | 5%      | 50V    | •        |              |                     |               |       |        |
| C5003  |      | -126-957-11  |                         | 0.22MF        | 20%     | 50V    | C5108    | 1-163-031-11 | <b>CERAMIC CHIP</b> | 0.01MF        |       | 50V    |
| C5004  |      | -163-038-91  | CERAMIC CHIP            | 0.1 <b>MF</b> |         | 25V    | C5109    | 1-126-964-11 | ELECT               | 10MF          | 20%   | 50V    |
| C5005  | 1    | -163-017-00  | CERAMIC CHIP            | 0.0047MF      | 10%     | 50V    | C5110    | 1-126-964-11 | ELECT               | 10MF          | 20%   | 50V    |
|        |      |              |                         |               |         |        | C5111    | 1-163-099-00 | <b>CERAMIC CHIP</b> | 18PF          | 5%    | 50V    |
| C5006  | 1    | -126-959-11  | ELECT                   | 0.47MF        | 20%     | 50V    | C5112    | 1-163-031-11 | <b>CERAMIC CHIP</b> | 0.01MF        |       | 50V    |
| C5007  | ' 1  | -126-961-11  | ELECT                   | 2.2MF         | 20%     | 50V    |          |              |                     |               |       |        |
| C5009  | 1    | -163-005-11  | <b>CERAMIC CHIP</b>     | 470PF         | 10%     | 50V    | C5113    | 1-164-489-11 | <b>CERAMIC CHIP</b> | 0.22MF        | 10%   | 16V    |
| C5010  | 1    | -126-934-11  | ELECT                   | 220MF         | 20%     | 16V    | C5114    | 1-163-239-11 | <b>CERAMIC CHIP</b> | 33PF          | 5%    | 50V    |
| C5011  | 1    | -126-960-11  | ELECT                   | 1MF           | 20%     | 50V    | C5115    | 1-163-231-11 | <b>CERAMIC CHIP</b> | 15PF          | 5%    | 50V    |
|        |      |              |                         |               |         |        | C5117    | 1-163-809-11 | <b>CERAMIC CHIP</b> | 0.047MF       | 10%   | 25V    |
| C5012  | 1    | -126-959-11  | ELECT                   | 0.47MF        | 20%     | 50V    | C5118    | 1-164-232-11 | <b>CERAMIC CHIP</b> | 0.01MF        | 10%   | 50V    |
| C5013  | 1    | -164-232-11  | <b>CERAMIC CHIP</b>     | 0.01MF        | 10%     | 50V    |          |              |                     |               |       |        |
| 25014  | . 1  | -163-038-91  | <b>CERAMIC CHIP</b>     | 0.1MF         |         | 25V    | C5120    | 1-163-231-11 | <b>CERAMIC CHIP</b> | 15PF          | 5%    | 50V    |
| C5015  | 1    | -163-229-11  | <b>CERAMIC CHIP</b>     | 12PF          | 5%      | 50V    | C5121    |              | <b>CERAMIC CHIP</b> |               | 10%   | 50V    |
| C5016  | 1    | -163-038-91  | <b>CERAMIC CHIP</b>     | 0.1MF         |         | 25V    | C5122    |              | <b>CERAMIC CHIP</b> |               | 10%   | 25V    |
|        |      |              |                         |               |         |        | C5123    | 1-126-960-11 | ELECT               | 1MF           | 20%   | 50V    |
| C5017  | 1    | -163-038-91  | <b>CERAMIC CHIP</b>     | 0.1MF         |         | 25V    | C5124    |              | <b>CERAMIC CHIP</b> |               | 10%   | 50V    |
| C5018  | 1    | -126-934-11  | ELECT                   | 220MF         | 20%     | 16V    |          |              |                     |               |       |        |
| C5019  | 1    | -163-038-91  | <b>CERAMIC CHIP</b>     | 0.1MF         |         | 25V    | C5125    | 1-164-232-11 | <b>CERAMIC CHIP</b> | 0.01MF        | 10%   | 50V    |
| C5020  | 1-   | -163-038-91  | <b>CERAMIC CHIP</b>     | 0.1MF         |         | 25V    | C5126    |              | <b>CERAMIC CHIP</b> |               |       | 50V    |
| C5021  | 1    | -163-038-91  | <b>CERAMIC CHIP</b>     | 0.1MF         |         | 25V    | C5127    | 1-104-664-11 |                     | 47MF          | 20%   | 25V    |
|        |      |              |                         |               |         | _      | C5129    | 1-163-038-91 | CERAMIC CHIP        |               |       | 25V    |
| C5022  | 1.   | -163-259-91  | <b>CERAMIC CHIP</b>     | 220PF         | 5%      | 50V    | C5130    | 1-104-664-11 | ELECT               | 47MF          | 20%   | 25V    |
| C5023  |      | -126-964-11  | ELECT                   | 10 <b>MF</b>  | 20%     | 50V    |          |              |                     |               |       |        |
| C5024  |      | -126-933-11  | ELECT                   | 100MF         | 20%     | 16V    | C5131    | 1-164-232-11 | <b>CERAMIC CHIP</b> | 0.01MF        | 10%   | 50V    |
| C5025  |      |              | CERAMIC CHIP            |               |         | 25V    | C5132    | 1-163-231-11 | <b>CERAMIC CHIP</b> | 15PF          | 5%    | 50V    |
| C5051  | 1.   | -163-038-91  | CERAMIC CHIP            | 0.1 <b>MF</b> |         | 25V    | C5133    | 1-163-038-91 | <b>CERAMIC CHIP</b> | 0.1MF         |       | 25V    |
|        |      |              |                         |               |         |        | C5134    | 1-163-038-91 | <b>CERAMIC CHIP</b> | 0.1MF         |       | 25V    |
| C5052  |      |              | CERAMIC CHIP            |               | 10%     | 16V    | C5135    | 1-163-031-11 | CERAMIC CHIP        | 0.01MF        |       | 50V    |
| C5053  |      | -104-664-11  |                         | 47MF          | 20%     | 25V    |          |              |                     |               |       |        |
| C5054  |      |              | CERAMIC CHIP            |               | 10%     | 50V    | C5136    |              | CERAMIC CHIP        |               |       | 50V    |
| C5055  |      |              | CERAMIC CHIP            |               |         | 16V    | C5137    |              | CERAMIC CHIP        |               |       | 50V    |
| C5057  | 1.   | -163-001-11  | CERAMIC CHIP            | 220PF         | 10%     | 50V    | C5138    | 1-104-664-11 |                     | 47MF          | 20%   | 25V    |
| ~~~    |      | 1 < 0 000 04 |                         |               |         |        | C5139    | 1-126-964-11 |                     | 10MF          | 20%   | 50V    |
| C5058  |      |              | CERAMIC CHIP            |               | 200     | 25V    | C5140    | 1-163-038-91 | CERAMIC CHIP        | 0.1 <b>MF</b> |       | 25V    |
| C5062  |      | -104-664-11  |                         | 47MF          | 20%     | 25V    |          |              |                     |               |       |        |
| C5063  |      | -104-664-11  |                         | 47MF          | 20%     | 25V    | C5141    |              | CERAMIC CHIP        |               |       | 25V    |
| C5064  |      |              | CERAMIC CHIP            |               | 5%      | 50V    | C5142    |              | CERAMIC CHIP        |               |       | 25V    |
| C5065  | 1.   | -163-239-11  | CERAMIC CHIP            | 33PF          | 5%      | 50V    | C5143    |              | CERAMIC CHIP        |               |       | 50V    |
| ~~~    | _    |              |                         |               |         |        | C5144    |              | CERAMIC CHIP        |               |       | 50V    |
| C5066  |      |              | CERAMIC CHIP            |               |         | 50V    | C5145    | 1-126-964-11 | ELECT               | 10MF          | 20%   | 50V    |
| C5067  | 1.   | -163-031-11  | CERAMIC CHIP            | 0.01MF        |         | 50V    |          |              |                     |               |       |        |
| C5068  | 1.   | -126-960-11  | ELECT                   | 1MF           | 20%     | 50V    |          | 1-164-232-11 | <b>CERAMIC CHIP</b> | 0.01MF        | 10%   | 50V    |
| C5069  |      |              | CERAMIC CHIP            |               |         | 50V    | C5147    |              | <b>CERAMIC CHIP</b> |               |       | 25V    |
| C5070  | 1    | -103-031-11  | CERAMIC CHIP            | U.U1MF        |         | 50V    | C5148    |              | CERAMIC CHIP        |               |       | 25V    |
|        | _    | 140 000 00   | Ann                     | 0.45.         |         |        | C5149    | 1-104-664-11 |                     | 47MF_         | 20%   | 25V    |
| C5071  | 1.   |              | CERAMIC CHIP            |               |         | 25V    | C5150    | 1-163-031-11 | CERAMIC CHIP        | 0.01MF        |       | 50V    |
| C5072  |      |              | CERAMIC CHIP            |               |         | 25V    |          |              |                     |               |       |        |
| C5073  |      |              | CERAMIC CHIP            |               |         | 25V    | C5151    | 1-104-664-11 |                     | 47MF          | 20%   | 25V    |
| C5076  | Į.   | -163-251-11  | CERAMIC CHIP            | 100PF         | 5%      | 50V    | C5152    |              | CERAMIC CHIP        |               |       | 50V    |
| C5077  | 1.   | -163-251-11  | CERAMIC CHIP            | 100PF         | 5%      | 50V    | C5153    | 1-104-664-11 |                     | 47MF          | 20%   | 25V    |
| 04050  | _    | 1.00 001 11  | ODD 1100 0              |               |         |        | C5154    | 1-104-664-11 |                     | 47MF          | 20%   | 25V    |
| C5078  |      |              | CERAMIC CHIP            |               | 200     | 50V    | C5157    | 1-164-004-11 | CERAMIC CHIP        | 0.1 <b>MF</b> | 10%   | 25V    |
| C5079  | 1.   | -104-664-11  | ELEC I                  | 47MF          | 20%     | 25V    |          |              |                     |               |       |        |
|        |      |              |                         |               |         |        |          |              |                     |               |       |        |



| REF. NO.         | PART NO.                     | DESCRIPTION  | REMARK          | REF. NO.                | PART NO.                     | DESCRIPTION  |          | REMARK         |
|------------------|------------------------------|--|-----------------|-------------------------|------------------------------|--|----------|----------------|
|                  |                              | <connector></connector>                              |                 | Q5105                   | 8-729-216-22                 | TRANSISTOR 2SA1162-G   |          |                |
| CN5051<br>CN5101 | 1-573-301-21<br>1-770-156-21 | CONNECTOR, BOARD TO BOAR<br>CONNECTOR, BOARD TO BOAR | RD 20P<br>RD 8P | Q5106<br>Q5107<br>Q5108 | 8-729-422-27                 | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q |          |                |
|                  |                              | <diode></diode>                                      |                 | Q5109<br>Q5110<br>Q5111 | 8-729-216-22<br>8-729-216-22 | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA1162-G |          |                |
| D5053            | 8-719-404-49                 | DIODE MA111  |                 | Q5112                   | 8-729-422-27                 | TRANSISTOR 2SD601A-Q   |          |                |
|                  |                              | <ferrite bead=""></ferrite>                          |                 |                         |                              | <resistor></resistor>  |          |                |
| FB5051           | 1-414-135-11                 | INDUCTOR CHIP OUH                                    |                 | R5001<br>R5002          | 1-216-049-91                 | METAL GLAZE 1K<br>METAL GLAZE 3.3K                                   | 5%<br>5% | 1/10W<br>1/10W |
| FB5052<br>FB5053 | 1-414-135-11<br>1-414-135-11 | INDUCTOR CHIP OUH INDUCTOR CHIP OUH                  |                 | R5003                   | 1-216-057-00                 | METAL GLAZE 2.2K   | 5%       | 1/10W          |
| FB5101           | 1-414-135-11                 | INDUCTOR CHIP 0UH<br>INDUCTOR CHIP 0UH               |                 | R5004<br>R5005          | 1-216-033-00<br>1-216-025-91 | METAL GLAZE 220<br>METAL GLAZE 100                                   | 5%<br>5% | 1/10W<br>1/10W |
| FB5102           |                              |  |                 |                         |                              | METAL GLAZE 100  | 5%       | 1/10W          |
| FB5103<br>FB5104 | 1-414-135-11<br>1-414-135-11 | INDUCTOR CHIP 0UH INDUCTOR CHIP 0UH                  |                 | R5006<br>R5007          | 1-216-025-91                 | METAL GLAZE 100  | 5%       | 1/10W          |
| FB5105           | 1-414-135-11                 | INDUCTOR CHIP 0UH<br>INDUCTOR CHIP 0UH               |                 | R5008<br>R5009          | 1-216-109-00                 | METAL GLAZE 330K<br>METAL GLAZE 470                                  | 5%<br>5% | 1/10W<br>1/10W |
| FB5106<br>FB5107 | 1-414-135-11                 | INDUCTOR CHIP OUH                                    |                 | R5010                   | 1-216-071-00                 | METAL GLAZE 8.2K   | 5%       | 1/10W          |
| FB5108           | 1-410-396-41                 | FERRITE BEAD INDUCTOR 0.45                           | SUH             | R5011                   | 1-216-077-00                 | METAL GLAZE 15K  | 5%<br>5% | 1/10W<br>1/10W |
| FB5109<br>FB5110 | 1-414-135-11                 | INDUCTOR CHIP OUH<br>INDUCTOR CHIP OUH               |                 | R5012<br>R5013          | 1-216-073-00                 | METAL GLAZE 10K<br>METAL GLAZE 1.5K                                  | 5%       | 1/10W          |
| FB5111           | 1-410-396-41                 | FERRITE BEAD INDUCTOR 0.45                           | UH              | R5014<br>R5015          | 1-216-025-91                 | METAL GLAZE 100<br>METAL GLAZE 470                                   | 5%<br>5% | 1/10W<br>1/10W |
|                  |                              |  |                 |                         |                              |  | 5%       | 1/10W          |
|                  |                              | <filter></filter>                                    |                 | R5016<br>R5017          | 1-216-041-00                 | METAL GLAZE 470<br>METAL GLAZE 470                                   | 5%       | 1/10W          |
| FL5101           |                              | FILTER, LOW PASS                                     |                 | R5018<br>R5019          | 1-216-041-00                 | METAL GLAZE 470<br>METAL GLAZE 330                                   | 5%<br>5% | 1/10W<br>1/10W |
| FL5102<br>FL5103 |                              | FILTER, LOW PASS<br>FILTER, LOW PASS                 |                 | R5021                   | 1-216-041-00                 | METAL GLAZE 470  | 5%       | 1/10W          |
|                  |                              |  |                 | R5022                   | 1-216-047-91                 | METAL GLAZE 820  | 5%       | 1/10W<br>1/10W |
|                  |                              | <ic></ic>  |                 | R5023<br>R5024          | 1-216-049-91                 | METAL GLAZE 470<br>METAL GLAZE 1K                                    | 5%<br>5% | 1/10W          |
| IC5001           |                              | IC CXA2019Q  |                 | R5025<br>R5026          | 1-216-075-00                 | METAL GLAZE 12K<br>METAL GLAZE 22K                                   | 5%<br>5% | 1/10W<br>1/10W |
| IC5052<br>IC5101 | 8-752-375-30                 | IC SDA9288X-A141<br>IC CXD2043Q                      |                 |                         |                              |  | 5%       | 1/10W          |
| IC5102<br>IC5103 |                              | IC CXA1686M<br>IC NJM78M05FA                         |                 | R5027<br>R5029          | 1-216-081-00                 | METAL GLAZE 1K<br>METAL GLAZE 22K                                    | 5%       | 1/10W          |
| 100100           | • ,••                        |  |                 | R5033<br>R5051          | 1-216-025-91<br>1-216-061-00 | METAL GLAZE 100<br>METAL GLAZE 3.3K                                  | 5%<br>5% | 1/10W<br>1/10W |
|                  |                              | <coil></coil>  |                 | R5052                   | 1-216-049-91                 | METAL GLAZE 1K   | 5%       | 1/10W          |
| L5001            | 1-410-478-11                 | INDUCTOR 47UH  |                 | R5053                   | 1-216-065-00                 | METAL GLAZE 4.7K<br>METAL GLAZE 4.7K                                 | 5%<br>5% | 1/10W<br>1/10W |
| L5002<br>L5003   | 1-410-478-11                 | INDUCTOR 47UH INDUCTOR 47UH                          |                 | R5054<br>R5055          | 1-216-049-91                 | METAL GLAZE 1K   | 5%       | 1/10W          |
| L5004<br>L5052   |                              | INDUCTOR 47UH<br>INDUCTOR 18UH                       |                 | R5056<br>R5057          | 1-216-073-00<br>1-216-049-91 | METAL GLAZE 10K<br>METAL GLAZE 1K                                    | 5%<br>5% | 1/10W<br>1/10W |
|                  |                              |  |                 | R5058                   | 1-216-049-91                 | METAL GLAZE 1K   | 5%       | 1/10W          |
| L5101<br>L5102   | 1-410-476-11                 | INDUCTOR 10UH<br>INDUCTOR 33UH                       |                 | R5059                   | 1-216-025-91                 | METAL GLAZE 100  | 5%<br>5% | 1/10W<br>1/10W |
| L5103<br>L5105   |                              | INDUCTOR 10UH<br>INDUCTOR 10UH                       |                 | R5060<br>R5061          | 1-216-065-00                 | METAL GLAZE 1K<br>METAL GLAZE 4.7K                                   | 5%       | 1/10W          |
|                  |                              |  |                 | R5062                   | 1-216-049-91                 | METAL GLAZE 1K   | 5%       | 1/10W          |
|                  |                              | <transistor></transistor>                            |                 | R5063<br>R5073          | 1-216-025-93                 | METAL GLAZE 100<br>METAL GLAZE 1K                                    | 5%<br>5% | 1/10W<br>1/10W |
| Q5001            |                              | TRANSISTOR 2SD601A-Q                                 |                 | R5074                   | 1-216-057-00                 | ) METAL GLAZE 2.2K   | 5%<br>5% | 1/10W<br>1/10W |
| Q5002<br>Q5003   |                              | TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q            |                 | R5075<br>R5076          |                              | ) METAL GLAZE 680<br>) METAL GLAZE 6.8K                              | 5%       | 1/10W          |
| Q5004            | 8-729-422-27                 | 7 TRANSISTOR 2SD601A-Q<br>7 TRANSISTOR 2SD601A-Q     |                 | R5077                   | 1-216-047-9                  | METAL GLAZE 820  | 5%       | 1/10W          |
| Q5005            |                              | _  |                 | R5078                   | 1-216-041-0                  | METAL GLAZE 470<br>METAL GLAZE 1K                                    | 5%<br>5% | 1/10W<br>1/10W |
| Q5051<br>Q5052   | 8-729-216-22<br>8-729-216-22 | 2 TRANSISTOR 2SA1162-G<br>2 TRANSISTOR 2SA1162-G     |                 | R5079<br>R5080          | 1-216-049-9                  | 1 METAL GLAZE 1K   | 5%       | 1/10W          |
| Q5053            | 8-729-216-22                 | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SD601A-Q         |                 | R5081                   | 1-216-041-0                  | ) METAL GLAZE 470  | 5%       | 1/10W          |
| Q5054<br>Q5055   | 8-729-216-2                  | 2 TRANSISTOR 2SA1162-G                               |                 | R5082                   | 1-216-041-0                  | ) METAL GLAZE 470<br>) METAL GLAZE 220                               | 5%<br>5% | 1/10W<br>1/10W |
| Q5056            | 8-729-422-2                  | 7 TRANSISTOR 2SD601A-Q                               |                 | R5084<br>R5085          | 1-216-033-0                  | 0 METAL GLAZE 220  | 5%       | 1/10W          |
| Q5057            | 8-729-422-2                  | 7 TRANSISTOR 2SD601A-Q                               |                 | R5087<br>R5089          | 1-216-057-0                  | 0 METAL GLAZE 2.2K<br>0 METAL GLAZE 2.2K                             | 5%<br>5% | 1/10W<br>1/10W |
| Q5101<br>Q5102   | 8-729-216-2                  | 7 TRANSISTOR 2SD601A-Q<br>2 TRANSISTOR 2SA1162-G     |                 | 1                       |                              | 1 METAL GLAZE 100  | 5%       | 1/10W          |
| Q5103            |                              | 2 TRANSISTOR 2SA1162-G                               |                 | R5090<br>R5091          | 1-216-025-9                  | 1 METAL GLAZE 100  | 5%       | 1/10W          |
| Q5104            | 8-729-216-2                  | 2 TRANSISTOR 2SA1162-G                               |                 | R5092                   | 1-216-025-9                  | 1 METAL GLAZE 100  | 5%       | 1/10W          |
|                  |                              |  |                 |                         |                              |  |          |                |



| REF. NO.                                  | PART NO.   | DESCRIPTION   | j                                   | REMARK   | REF. NO.                                  | PART NO.   | DESCRIPTION  |                                    |                               | REMARK                          |
|---|--|---|-------------------------------------|--|---|--|--|------------------------------------|-------------------------------|---------------------------------|
| R5102<br>R5103                            |  | CONDUCTOR, CHIP<br>METAL GLAZE 820  | 5%                                  | 1/10W  |   | * A-1190-264-A   | PV BOARD, C  |                                    |                               | KP-41T35)                       |
| R5104<br>R5106<br>R5107<br>R5108          | 1-216-035-00<br>1-216-097-91<br>1-216-065-00                 | CONDUCTOR, CHIP<br>METAL GLAZE 270<br>METAL GLAZE 100K<br>METAL GLAZE 4.7K                    | 5%<br>5%<br>5%                      | 1/10W<br>1/10W<br>1/10W                            |   | 4-382-854-11   | SCREW (M3X10 < CAPACITOR>  | )), P, SW (+                       | )                             |                                 |
| R5109<br>R5110<br>R5112<br>R5113<br>R5114 | 1-208-774-11<br>1-216-049-91<br>1-216-043-91                 | METAL GLAZE 560  METAL GLAZE 470  METAL GLAZE 1K  METAL GLAZE 560  METAL GLAZE 10K            | 0.50%<br>0.50%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          | C3001<br>C3002<br>C3003<br>C3004<br>C3005 | 1-164-489-11<br>1-163-038-91                                 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP                                 | 0.22MF<br>0.1MF                    | 20%<br>5%<br>10%              | 25V<br>50V<br>16V<br>25V        |
| R5115<br>R5116<br>R5117<br>R5118          | 1-216-049-91<br>1-216-043-91<br>1-216-049-91                 | METAL GLAZE 10K METAL GLAZE 1K METAL GLAZE 560 METAL GLAZE 1K METAL GLAZE 8.2K                | 5%<br>5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W<br>1/10W                   | C3005<br>C3006<br>C3007<br>C3008<br>C3009 | 1-164-005-11<br>1-164-505-11<br>1-126-963-11                 | CERAMIC CHIP<br>CERAMIC CHIP<br>ELECT<br>CERAMIC CHIP                        | 0.47MF<br>2.2MF<br>4.7MF           | 20%<br>10%                    | 50V<br>16V<br>16V<br>50V<br>50V |
| R5120<br>R5121<br>R5122<br>R5124          | 1-216-041-00<br>1-216-049-91                                 | METAL GLAZE 220<br>METAL GLAZE 470<br>METAL GLAZE 1K<br>METAL GLAZE 100                       | 0.50%<br>5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W<br>1/10W                   | C3010<br>C3011<br>C3012<br>C3013          | 1-126-934-11<br>1-126-960-11<br>1-164-005-11                 | ELECT ELECT CERAMIC CHIP   | 220MF<br>1MF<br>0.47MF             | 20%<br>20%                    | 16V<br>50V<br>16V               |
| R5124<br>R5127<br>R5128<br>R5129          | 1-216-069-00<br>1-216-075-00                                 | METAL GLAZE 100<br>METAL GLAZE 6.8K<br>METAL GLAZE 12K<br>METAL GLAZE 560                     | 5%<br>5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W                            | C3014<br>C3015<br>C3016                   | 1-163-038-91<br>1-163-229-11                                 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP                                 | 0.1MF<br>12PF                      | 10%<br>5%                     | 50V<br>25V<br>50V<br>25V        |
| R5130<br>R5132<br>R5133<br>R5134<br>R5135 | 1-216-043-91<br>1-216-081-00<br>1-216-081-00                 | METAL GLAZE 12K<br>METAL GLAZE 560<br>METAL GLAZE 22K<br>METAL GLAZE 22K<br>METAL GLAZE 22K   | 5%<br>5%<br>5%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          | C3017<br>C3018<br>C3019<br>C3020          | 1-126-934-11<br>1-163-038-91                                 | CERAMIC CHIP<br>ELECT<br>CERAMIC CHIP<br>CERAMIC CHIP                        | 220MF<br>0.1MF                     | 20%                           | 25V<br>16V<br>25V<br>25V        |
| R5136<br>R5137<br>R5138<br>R5139<br>R5140 | 1-208-766-11<br>1-208-794-11<br>1-208-794-11                 | METAL GLAZE 22K<br>METAL GLAZE 220<br>METAL GLAZE 3.3K<br>METAL GLAZE 3.3K<br>METAL GLAZE 470 | 5%<br>0.50%<br>0.50%<br>0.50%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          | C3021<br>C3022<br>C3023<br>C3024<br>C3025 | 1-163-259-91<br>1-126-964-11<br>1-126-933-11                 |  | 220PF<br>10MF<br>100MF             | 5%<br>20%<br>20%              | 25V<br>50V<br>50V<br>16V<br>25V |
| R5141<br>R5142<br>R5143<br>R5144<br>R5145 | 1-216-033-00<br>1-216-041-00<br>1-216-033-00<br>1-216-067-00 | METAL GLAZE 220<br>METAL GLAZE 470<br>METAL GLAZE 220<br>METAL GLAZE 5.6K<br>METAL GLAZE 270  | 5%<br>5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W<br>1/10W                   | C3026<br>C3101<br>C3102<br>C3103<br>C3104 | 1-104-664-11<br>1-163-031-11<br>1-164-232-11                 | CERAMIC CHIP<br>ELECT<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP        | 47MF<br>0.01MF<br>0.01MF           | 10%<br>20%<br>10%             | 25V<br>25V<br>50V<br>50V<br>50V |
| R5146<br>R5147<br>R5148<br>R5149<br>R5150 | 1-216-035-00<br>1-208-788-11<br>1-208-788-11<br>1-216-043-91 | METAL GLAZE 270 METAL GLAZE 1.8K METAL GLAZE 1.8K METAL GLAZE 560 METAL GLAZE 3.3K            | 5%<br>0.50%<br>0.50%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | C3105<br>C3106<br>C3107<br>C3108<br>C3109 | 1-163-031-11<br>1-163-245-11                                 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>ELECT        | 0.01MF<br>56PF                     | 0.5PF<br>5%<br>20%            | 50V<br>50V<br>50V<br>50V<br>50V |
| R5151<br>R5152<br>R5156<br>R5157<br>R5158 | 1-208-794-11<br>1-216-025-91<br>1-216-025-91<br>1-216-025-91 | METAL GLAZE 3.3K<br>METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 100                     | 0.50%<br>5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W<br>1/10W                   | C3110<br>C3111<br>C3112<br>C3113<br>C3114 | 1-163-031-11<br>1-164-489-11                                 | ELECT<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP        | 0.01MF<br>0.22MF                   | 20%<br>5%<br>10%<br>5%        | 50V<br>50V<br>50V<br>16V<br>50V |
| R5159<br>R5160<br>R5161<br>R5163          | 1-216-025-91<br>1-216-025-91<br>1-216-025-91                 | METAL GLAZE 100               | 5%<br>5%<br>5%<br>5%<br>5%          | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W          | C3115<br>C3117<br>C3118<br>C3120<br>C3121 | 1-163-809-11<br>1-164-232-11<br>1-163-231-11                 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP | 0.047MF<br>0.01MF<br>15PF          | 5%<br>10%<br>10%<br>5%<br>10% | 50V<br>25V<br>50V<br>50V<br>50V |
| X5001<br>X5002                            |  | <crystal> OSCILALTOR, CERAMIC OSCILLATOR, CRYSTAL</crystal>                                   |                                     |  | C3122<br>C3123<br>C3124<br>C3125<br>C3126 | 1-126-960-11<br>1-164-232-11<br>1-164-232-11                 | CERAMIC CHIP<br>ELECT<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP        | 1MF<br>0.01MF<br>0.01MF            | 10%<br>20%<br>10%<br>10%      | 25V<br>50V<br>50V<br>50V<br>50V |
| X5051<br>X5101<br>X5102                   | 1-760-095-21<br>1-567-878-11                                 | VIBRATOR, CRYSTAL<br>VIBRATOR, CRYSTAL<br>OSCILALTOR, CERAMIC                                 |                                     |  | C3127<br>C3129<br>C3130<br>C3131<br>C3132 | 1-104-664-11<br>1-163-038-91<br>1-104-664-11<br>1-164-232-11 | ELECT<br>CERAMIC CHIP  | 47MF<br>0.1MF<br>47MF<br>0.01MF    | 20%<br>20%<br>10%<br>5%       | 25V<br>25V<br>25V<br>50V<br>50V |
| *****                                     | *****  | ************  | ******                              | *****  | C3133<br>C3134<br>C3135<br>C3136<br>C3137 | 1-163-038-91<br>1-163-038-91<br>1-163-031-11<br>1-163-031-11 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP | 0.1MF<br>0.1MF<br>0.01MF<br>0.01MF | <i>-</i>                      | 25V<br>25V<br>50V<br>50V<br>50V |
|   |  |   |                                     |  | C3138<br>C3139                            | 1-104-664-11<br>1-126-964-11                                 | ELECT  | 47MF<br>10MF                       | 20%<br>20%                    | 25V<br>50V                      |



| REF. NO.                                  | PART NO.                                     | DESCRIPTION   |                               | REMARK                     | REF. NO.                             | PART NO.   | DESCRIPTION  | REMARK                                  |
|---|--|---|-------------------------------|----------------------------|--------------------------------------|--|--|---|
| C3140<br>C3141<br>C3142                   | 1-163-038-91                                 | CERAMIC CHIP 0.1N<br>CERAMIC CHIP 0.1N<br>CERAMIC CHIP 0.1N                                   | MF                            | 25V<br>25V<br>25V          | C3256<br>C3257<br>C3258<br>C3259     | 1-163-038-91<br>1-164-346-11                                 | CERAMIC CHIP 0.1MF<br>CERAMIC CHIP 0.1MF<br>CERAMIC CHIP 1MF<br>CERAMIC CHIP 1MF     | 25V<br>25V<br>16V<br>16V                |
| C3143<br>C3144<br>C3145<br>C3146<br>C3147 | 1-163-031-11<br>1-126-964-11<br>1-164-232-11 | CERAMIC CHIP 0.01<br>CERAMIC CHIP 0.01<br>ELECT 10M<br>CERAMIC CHIP 0.01<br>CERAMIC CHIP 0.11 | 1MF<br>MF 20%<br>1MF 10%      |                            | C3260<br>C3261<br>C3262<br>C3263     | 1-163-005-11<br>1-163-259-91<br>1-163-038-91<br>1-126-964-11 | CERAMIC CHIP 470PF CERAMIC CHIP 220PF CERAMIC CHIP 0.1MF ELECT 10MF                  | 10% 50V<br>5% 50V<br>25V<br>20% 50V     |
| C3148<br>C3149<br>C3150<br>C3151          | 1-163-038-91<br>1-104-664-11                 | CERAMIC CHIP 0.11<br>ELECT 47M<br>CERAMIC CHIP 0.01   | MF<br>MF 20%<br>1MF           | 25V<br>6 25V<br>50V        | C3267<br>C3268<br>C3269<br>C3270     | 1-163-245-11<br>1-104-664-11<br>1-104-664-11<br>1-126-933-11 | CERAMIC CHIP 56PF<br>ELECT 47MF<br>ELECT 47MF  | 5% 50V<br>20% 25V<br>20% 25V<br>20% 16V |
| C3152<br>C3153<br>C3154                   |  | CERAMIC CHIP 0.01 ELECT 47M   | 1MF<br>MF 20%                 | 50V<br>6 25V               | C3271<br>C3272<br>C3283              | 1-163-227-11<br>1-126-963-11                                 |  | 25V<br>0.5PF 50V<br>20% 50V             |
| C3157<br>C3201<br>C3202                   | 1-164-004-11<br>1-104-664-11<br>1-163-038-91 | CERAMIC CHIP 0.11<br>ELECT 47N<br>CERAMIC CHIP 0.11   | MF 20%<br>MF                  | 6 25V<br>25V               | C3284<br>C3285<br>C3286<br>C3288     | 1-163-038-91<br>1-163-038-91                                 | CERAMIC CHIP 0.1MF<br>CERAMIC CHIP 0.1MF<br>CERAMIC CHIP 0.1MF<br>CERAMIC CHIP 0.1MF | 25V<br>25V<br>25V<br>25V                |
| C3203<br>C3204<br>C3205<br>C3206<br>C3207 | 1-163-038-91                                 |   | MF 209<br>MF<br>MF            | 6 25V<br>25V<br>25V        | CM3201                               | 1-467-554-21   | <filter block=""> FILTER BLOCK, COMB</filter>  |   |
| C3208<br>C3209<br>C3210                   | 1-164-489-11<br>1-163-017-00                 | CERAMIC CHIP 0.22<br>CERAMIC CHIP 0.00<br>CERAMIC CHIP 2.21                                   | 2MF 109<br>047MF 109          | 6 16V<br>6 50V<br>16V      |                                      |  | <connector></connector>  | 0 D0 4 DD 40D                           |
| C3211<br>C3212<br>C3214                   | 1-163-005-11<br>1-164-004-11                 | CERAMIC CHIP 470<br>CERAMIC CHIP 470<br>CERAMIC CHIP 0.11                                     | OPF 109<br>MF 109             | 6 50V<br>6 25V             | CN3051<br>CN3101                     | 1-573-301-21<br>1-770-156-21                                 | CONNECTOR, BOARD TO  | ) BOARD 20P<br>) BOARD 8P               |
| C3215<br>C3216<br>C3217<br>C3218          | 1-164-005-11                                 | CERAMIC CHIP 10F<br>CERAMIC CHIP 0.4'<br>CERAMIC CHIP 470<br>ELECT 1M                         | 7MF<br>0PF 109                | 16V<br>6 50V               | D3002<br>D3204                       |  | <pre><diode> DIODE MA111 DIODE MA111</diode></pre>                                   |   |
| C3219<br>C3220<br>C3221<br>C3222          | 1-126-934-11<br>1-164-232-11<br>1-163-038-91 | CERAMIC CHIP 0.0<br>CERAMIC CHIP 0.1  | 0MF 209<br>01MF 109<br>0MF    | % 50V<br>25V               | FB3101                               | 1-414-135-11   | <ferrite bead=""> INDUCTOR CHIP OUH</ferrite>  |   |
| C3223<br>C3224<br>C3225<br>C3226          | 1-163-038-91<br>1-164-346-11                 | CERAMIC CHIP 12F CERAMIC CHIP 0.1 CERAMIC CHIP 1M CERAMIC CHIP 0.1                            | MF<br>IF                      | 50V<br>25V<br>16V<br>25V   | FB3102<br>FB3103<br>FB3104<br>FB3105 | 1-414-135-11<br>1-414-135-11                                 | INDUCTOR CHIP OUH INDUCTOR CHIP OUH INDUCTOR CHIP OUH INDUCTOR CHIP OUH              |   |
| C3227<br>C3228<br>C3229                   | 1-126-934-11<br>1-163-005-11<br>1-163-005-11 | ELECT 220<br>CERAMIC CHIP 470<br>CERAMIC CHIP 470   | 0MF 209<br>0PF 109<br>0PF 109 | % 16V<br>% 50V<br>% 50V    | FB3106<br>FB3107<br>FB3108<br>FB3109 | 1-414-135-11<br>1-410-396-41<br>1-414-135-11                 | INDUCTOR CHIP OUH INDUCTOR CHIP OUH FERRITE BEAD INDUCT INDUCTOR CHIP OUH            | OR 0.45UH                               |
| C3231<br>C3232<br>C3233<br>C3235          | 1-163-038-91<br>1-163-038-91                 | CERAMIC CHIP 0.1<br>CERAMIC CHIP 0.1<br>CERAMIC CHIP 0.1<br>CERAMIC CHIP 0.1                  | MF<br>MF                      | 25V<br>25V<br>25V<br>25V   | FB3110<br>FB3111<br>FB3202<br>FB3203 | 1-410-396-41<br>1-410-396-41                                 | INDUCTOR CHIP OUH FERRITE BEAD INDUCT FERRITE BEAD INDUCT INDUCTOR CHIP OUH          |   |
| C3236<br>C3237<br>C3238<br>C3239          | 1-164-004-11<br>1-164-004-11                 | CERAMIC CHIP 0.1<br>CERAMIC CHIP 0.1<br>CERAMIC CHIP 0.1<br>CERAMIC CHIP 0.1                  | IMF 109<br>IMF 109            | % 25V<br>25V               | FB3204<br>FB3205<br>FB3206           | 1-414-135-11<br>1-414-135-11<br>1-414-135-11                 | INDUCTOR CHIP 0UH<br>INDUCTOR CHIP 0UH<br>INDUCTOR CHIP 0UH                          |   |
| C3240<br>C3241<br>C3242<br>C3243          | 1-164-004-11<br>1-163-038-91                 | CERAMIC CHIP 0.1 CERAMIC CHIP 0.1 CERAMIC CHIP 0.1 CERAMIC CHIP 0.1                           | IMF 10 <sup>o</sup>           | 25V<br>% 25V<br>25V<br>25V | FB3207<br>FB3208<br>FB3209<br>FB3210 | 1-414-135-11<br>1-414-135-11                                 | INDUCTOR CHIP OUH INDUCTOR CHIP OUH INDUCTOR CHIP OUH INDUCTOR CHIP OUH              |   |
| C3245<br>C3245<br>C3246                   | 1-164-004-11<br>1-164-004-11                 | CERAMIC CHIP 0.1 CERAMIC CHIP 0.1 CERAMIC CHIP 0.1  | 1MF 10 <sup>o</sup>           | % 25V<br>% 25V             | FB3211<br>FB3212<br>FB3213<br>FB3214 | 1-414-135-11<br>1-414-135-11                                 | INDUCTOR CHIP OUH INDUCTOR CHIP OUH INDUCTOR CHIP OUH INDUCTOR CHIP OUH              |   |
| C3247<br>C3248<br>C3249<br>C3250          | 1-163-038-91<br>1-163-038-91<br>1-164-346-11 | CERAMIC CHIP 0.1<br>CERAMIC CHIP 0.1<br>CERAMIC CHIP 1M<br>CERAMIC CHIP 1M                    | IMF<br>IMF<br>VF              | 25V<br>25V<br>16V<br>16V   | FB3215<br>FB3216                     |  | INDUCTOR CHIP 0UH INDUCTOR CHIP 0UH  |   |
| C3251<br>C3252<br>C3253                   | 1-163-038-9<br>1-163-038-9                   | CERAMIC CHIP 0.1 CERAMIC CHIP 0.1 CERAMIC CHIP 0.1  | 1MF<br>1MF                    | 25V<br>25V<br>25V<br>16V   | FL3101<br>FL3102                     |  | <filter> FILTER, LOW PASS FILTER, LOW PASS</filter>                                  |   |
| C3254<br>C3255                            |  | CERAMIC CHIP 1N CERAMIC CHIP 0.1  |                               | 25V                        | FL3102                               | 1-239-847-11   | FILTER, LOW PASS   |   |



| REF. NO.         | PART NO.     | DESCRIPTION                                  | REMA               | .RK į     | REF. NO.       | PART NO.     | DESCRIPTION                          | 1              | REMARK         |
|------------------|--------------|--|--------------------|-----------|----------------|--------------|--------------------------------------|----------------|----------------|
|                  |              | <ic></ic>                                    |                    |           | R3004          | 1-216-033-00 | METAL GLAZE 220                      | 5%             | 1/10W          |
| IC3001           | 8-752-078-83 | IC CXA2019O                                  |                    |           | R3005          |              | METAL GLAZE 100                      | 5%             | 1/10W          |
| IC3101           | 8-752-375-30 | IC CXD2043Q                                  |                    |           | R3006          |              | METAL GLAZE 100                      | 5%             | 1/10W          |
| IC3102<br>IC3103 |              | IC CXA1686M<br>IC NJM7805FA                  |                    |           | R3007<br>R3008 |              | METAL GLAZE 100<br>METAL GLAZE 330K  | 5%<br>5%       | 1/10W<br>1/10W |
| IC3201           |              | IC TC528257J-80(EL)                          |                    |           | R3009          | 1-216-037-00 | METAL GLAZE 330                      | 5%             | 1/10W          |
| IC3202           | 8-752-078-83 | IC CXA2019Q                                  |                    |           | R3010          | 1-210-0/1-00 | METAL GLAZE 8.2K                     | 5%             | 1/10W          |
| IC3203<br>IC3204 |              | IC SAB9076AH<br>IC HD14053BFP                |                    |           | R3011<br>R3012 |              | METAL GLAZE 15K<br>METAL GLAZE 10K   | 5%<br>5%       | 1/10W<br>1/10W |
|                  | 0 702 000 10 |  |                    |           | R3013          | 1-216-053-00 | METAL GLAZE 1.5K                     | 5%             | 1/10W          |
|                  |              | <coil></coil>                                |                    |           | R3014<br>R3015 |              | METAL GLAZE 100<br>METAL GLAZE 100   | 5%<br>5%       | 1/10W<br>1/10W |
| L3001            | 1-410-478-11 | INDUCTOR 47UH                                |                    |           | R3016          | 1-216-025-91 | METAL GLAZE 100                      | 5%             | 1/10W          |
| L3002            | 1-410-478-11 | INDUCTOR 47UH                                |                    |           | R3019          | 1-216-037-00 | METAL GLAZE 330                      | 5%             | 1/10W          |
| L3003<br>L3004   |              | INDUCTOR 47UH<br>INDUCTOR 47UH               |                    |           | R3021<br>R3022 |              | METAL GLAZE 470<br>METAL GLAZE 820   | 5%<br>5%       | 1/10W<br>1/10W |
| L3101            |              | INDUCTOR 10UH                                |                    |           | R3023          |              | METAL GLAZE 470                      | 5%             | 1/10W          |
| L3102            |              | INDUCTOR 33UH                                |                    |           | R3024          |              | METAL GLAZE 1K                       | 5%             | 1/10W          |
| L3103<br>L3105   |              | INDUCTOR 10UH<br>INDUCTOR 10UH               |                    |           | R3025<br>R3026 |              | METAL GLAZE 12K<br>METAL GLAZE 22K   | 5%<br>5%       | 1/10W<br>1/10W |
| L3201            | 1-410-470-11 | INDUCTOR 10UH                                |                    |           | R3027          | 1-216-049-91 | METAL GLAZE 1K                       | 5%             | 1/10W          |
| L3202            | 1-408-413-00 | INDUCTOR 22UH                                |                    | İ         | R3030          | 1-208-774-11 | METAL GLAZE 470                      | 0.50%          | 1/10W          |
| L3203<br>L3204   |              | INDUCTOR 47UH<br>INDUCTOR 47UH               |                    |           | R3031<br>R3032 |              | METAL GLAZE 47                       | 0.50%<br>0.50% | 1/10W<br>1/10W |
| L3204            |              | INDUCTOR 47UH                                |                    |           | R3032          |              | METAL GLAZE 470<br>METAL GLAZE 100   | 5%             | 1/10W<br>1/10W |
| L3206            | 1-410-478-11 | INDUCTOR 47UH                                |                    | İ         | R3034          | 1-216-049-91 | METAL GLAZE 1K                       | 5%             | 1/10W          |
| L3207            | 1-410-4/8-11 | INDUCTOR 47UH                                |                    |           | R3102          | 1-210-295-91 | CONDUCTOR, CHIP                      |                |                |
|                  |              | <transistor></transistor>                    |                    |           | R3103<br>R3104 |              | METAL GLAZE 820<br>CONDUCTOR, CHIP   | 5%             | 1/10W          |
|                  |              | (TRANSISTOR)                                 |                    | -         | R3104          |              | METAL GLAZE 270                      | 5%             | 1/10W          |
| Q3001<br>Q3002   |              | TRANSISTOR 2SD601A-Q                         |                    |           | R3107<br>R3108 |              | METAL GLAZE 100K<br>METAL GLAZE 4.7K | 5%<br>5%       | 1/10W<br>1/10W |
| Q3002<br>Q3003   | 8-729-422-27 | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SD601A-Q |                    |           | KJIUO          | 1-210-003-00 | METAL GLAZE 4./K                     | 370            | 1/10W          |
| Q3004<br>Q3005   | 8-729-422-27 | TRANSISTOR 2SD601A-Q                         |                    |           | R3109          |              | METAL GLAZE 560                      | 0.50%          | 1/10W          |
|                  | 0-129-422-21 | TRANSISTOR 2SD601A-Q                         |                    |           | R3110<br>R3112 |              | METAL GLAZE 470<br>METAL GLAZE 1K    | 0.50%<br>5%    | 1/10W<br>1/10W |
| Q3006<br>Q3101   |              | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-O |                    |           | R3113<br>R3114 |              | METAL GLAZE 560<br>METAL GLAZE 10K   | 5%             | 1/10W<br>1/10W |
| Q3101<br>Q3102   |              | TRANSISTOR 2SD001A-Q                         |                    |           | K3114          | 1-210-073-00 | METAL GLAZE TOK                      | 5%             | 1/10W          |
| Q3103<br>Q3104   |              | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA1162-G |                    |           | R3115<br>R3116 |              | METAL GLAZE 1K<br>METAL GLAZE 560    | 5%<br>5%       | 1/10W<br>1/10W |
| Q3104            | 0-729-210-22 | TRANSISTOR 25ATT02-0                         |                    |           | R3117          |              | METAL GLAZE 300<br>METAL GLAZE 1K    | 5%             | 1/10W          |
| Q3105<br>Q3106   |              | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SD601A-O |                    |           | R3118<br>R3120 |              | METAL GLAZE 8.2K<br>METAL GLAZE 220  | 5%<br>0.50%    | 1/10W<br>1/10W |
| Q3100<br>Q3107   | 8-729-422-27 | TRANSISTOR 2SD601A-Q                         |                    |           |                |              |                                      | 0.50%          | 1/10W          |
| Q3108<br>Q3109   |              | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SA1162-G |                    |           | R3121<br>R3122 |              | METAL GLAZE 470<br>METAL GLAZE 1K    | 5%<br>5%       | 1/10W<br>1/10W |
| Q3109            | 6-729-210-22 | TRAININGTOR 25ATTU2-G                        |                    |           | R3124          |              | METAL GLAZE 1R<br>METAL GLAZE 100    | 5%             | 1/10W          |
| Q3110<br>Q3111   |              | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA1162-G |                    |           | R3127<br>R3128 |              | METAL GLAZE 6.8K<br>METAL GLAZE 12K  | 5%<br>5%       | 1/10W<br>1/10W |
| Q3112            | 8-729-422-27 | TRANSISTOR 2SD601A-Q                         |                    |           |                | 1-210-073-00 | WEIAL OLAZE 12K                      | 3 70           | 1/10W          |
| Q3201<br>Q3202   |              | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q |                    |           | R3129<br>R3130 |              | METAL GLAZE 560<br>METAL GLAZE 12K   | 5%<br>5%       | 1/10W<br>1/10W |
|                  |              | _  |                    |           | R3132          | 1-216-043-91 | METAL GLAZE 560                      | 5%             | 1/10W          |
| Q3203<br>Q3204   |              | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SD601A-Q |                    |           | R3133<br>R3134 |              | METAL GLAZE 22K<br>METAL GLAZE 22K   | 5%<br>5%       | 1/10W<br>1/10W |
| Q3205            | 8-729-422-27 | TRANSISTOR 2SD601A-Q                         |                    | 1         |                |              |                                      |                |                |
| Q3206<br>Q3207   |              | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q |                    | 1         | R3135<br>R3136 |              | METAL GLAZE 22K<br>METAL GLAZE 22K   | 5%<br>5%       | 1/10W<br>1/10W |
| -                |              | _  |                    | 1         | R3137          | 1-208-766-11 | METAL GLAZE 220                      | 0.50%          | 1/10W          |
| Q3208<br>Q3209   |              | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SD601A-O |                    | 1         | R3138<br>R3139 |              | METAL GLAZE 3.3K<br>METAL GLAZE 3.3K | 0.50%<br>0.50% | 1/10W<br>1/10W |
| Q3210            | 8-729-216-22 | TRANSISTOR 2SA1162-G                         |                    | İ         |                |              |                                      |                |                |
| Q3211<br>Q3212   |              | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SA1162-G |                    |           | R3140<br>R3141 |              | METAL GLAZE 470<br>METAL GLAZE 220   | 5%<br>5%       | 1/10W<br>1/10W |
| -                |              |  |                    |           | R3142          | 1-216-041-00 | METAL GLAZE 470                      | 5%             | 1/10W          |
| Q3213<br>Q3214   |              | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-O |                    |           | R3143<br>R3144 |              | METAL GLAZE 220<br>METAL GLAZE 5.6K  | 5%<br>5%       | 1/10W<br>1/10W |
| Q3217            |              | TRANSISTOR 2SD601A-Q                         |                    |           |                |              |                                      |                |                |
|                  |              |  |                    |           | R3145<br>R3146 |              | METAL GLAZE 270<br>METAL GLAZE 270   | 5%<br>5%       | 1/10W<br>1/10W |
|                  |              | <resistor></resistor>                        |                    |           | R3147          | 1-208-788-11 | METAL GLAZE 1.8K                     | 0.50%          | 1/10W          |
| R3001            | 1-216-049-91 | METAL GLAZE 1K                               | 5% 1/10            | w l       | R3148<br>R3149 |              | METAL GLAZE 1.8K<br>METAL GLAZE 560  | 0.50%<br>5%    | 1/10W<br>1/10W |
| R3002<br>R3003   | 1-216-061-00 | METAL GLAZE 3.3K<br>METAL GLAZE 2.2K         | 5% 1/10<br>5% 1/10 | )W        | R3150          |              | METAL GLAZE 3.3K                     | 0.50%          | 1/10W          |
| COOCA            | 1-210-037-00 | WILLIAL OUALE 2,2K                           | 570 1/1U           | <b>'"</b> | K3130          | 1-200-174-11 | WILLIAL GLAZE 3.3K                   | 0.30%          | 1/10 W         |



| REF. NO.                                  | PART NO.   | DESCRIPTION  | ]                          | REMARK                                    | REF. NO.   | PART NO.   | DESCRIPTION   | :                             | REMARK                                    |
|---|--|--|----------------------------|---|--|--|---|-------------------------------|---|
| R3151<br>R3152<br>R3156<br>R3157          | 1-216-025-91<br>1-216-025-91                                 | METAL GLAZE 3.3K<br>METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 100                    | 0.50%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W          | R3264<br>R3265<br>R3266<br>R3267                   | 1-216-033-00<br>1-216-057-00<br>1-216-295-91                 | METAL GLAZE 220<br>METAL GLAZE 220<br>METAL GLAZE 2.2K<br>CONDUCTOR, CHIP<br>METAL GLAZE 2.2K         | 5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W                   |
| R3158<br>R3159<br>R3160<br>R3161<br>R3163 | 1-216-025-91<br>1-216-025-91<br>1-216-025-91                 | METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 100  | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | R3268<br>R3269<br>R3270<br>R3271<br>R3272<br>R3273 | 1-216-049-91<br>1-216-041-00<br>1-216-053-00<br>1-216-049-91 | METAL GLAZE 1K METAL GLAZE 470 METAL GLAZE 1.5K METAL GLAZE 1.5K METAL GLAZE 1.5K                     | 5%<br>5%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |
| R3201<br>R3202<br>R3203<br>R3204<br>R3205 | 1-216-051-00<br>1-216-049-91<br>1-216-049-91                 | METAL GLAZE 1.2K<br>METAL GLAZE 1.2K<br>METAL GLAZE 1K<br>METAL GLAZE 1K<br>METAL GLAZE 3.3K | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | R3274<br>R3276<br>R3277<br>R3278<br>R3279          | 1-216-057-00<br>1-216-025-91<br>1-216-025-91<br>1-216-025-91 | METAL GLAZE 2.2K<br>METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 1K           | 5%<br>5%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |
| R3206<br>R3207<br>R3208<br>R3209<br>R3210 | 1-216-025-91<br>1-216-025-91<br>1-216-057-00                 | METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 2.2K<br>METAL GLAZE 100 | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | R3280<br>R3281<br>R3282<br>R3283<br>R3284          | 1-216-025-91<br>1-208-774-11<br>1-208-750-11<br>1-208-774-11 | METAL GLAZE 100 METAL GLAZE 470 METAL GLAZE 470 METAL GLAZE 470 CONDUCTOR, CHIP                       | 5%<br>0.50%<br>0.50%<br>0.50% | 1/10W<br>1/10W<br>1/10W<br>1/10W          |
| R3211<br>R3212<br>R3213<br>R3214<br>R3215 | 1-216-025-91<br>1-216-025-91<br>1-216-025-91<br>1-216-025-91 | METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 100  | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | R3285<br>R3286<br>R3287<br>R3288<br>R3289          | 1-216-295-91<br>1-216-009-00<br>1-216-295-91                 | METAL GLAZE 22<br>CONDUCTOR, CHIP<br>METAL GLAZE 22<br>CONDUCTOR, CHIP<br>CONDUCTOR, CHIP             | 5%<br>5%                      | 1/10W<br>1/10W                            |
| R3216<br>R3217<br>R3218<br>R3219<br>R3220 | 1-216-025-91<br>1-216-025-91<br>1-216-025-91<br>1-216-109-00 | METAL GLAZE 220<br>METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 330K | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | R3290<br>R3291<br>R3292<br>R3293<br>R3294          | 1-216-009-00<br>1-216-295-91<br>1-216-295-91                 | CONDUCTOR, CHIP<br>METAL GLAZE 22<br>CONDUCTOR, CHIP<br>CONDUCTOR, CHIP<br>METAL GLAZE 22             | 5%<br>5%                      | 1/10W<br>1/10W                            |
| R3222<br>R3223<br>R3224<br>R3225<br>R3226 | 1-216-025-91<br>1-216-025-91<br>1-216-071-00<br>1-216-025-91 | METAL GLAZE 330 METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 8.2K METAL GLAZE 100             | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | R3295<br>R3296<br>R3297<br>R3298<br>R3299          | 1-216-295-91<br>1-216-025-91<br>1-216-295-91                 | METAL GLAZE 22<br>CONDUCTOR, CHIP<br>METAL GLAZE 100<br>CONDUCTOR, CHIP<br>CONDUCTOR, CHIP            | 5%<br>5%                      | 1/10W<br>1/10W                            |
| R3227<br>R3228<br>R3229<br>R3230<br>R3231 | 1-216-077-00<br>1-216-025-91<br>1-216-025-91<br>1-216-073-00 | METAL GLAZE 100 METAL GLAZE 15K METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 10K              | 5%<br>5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | R3307<br>R3308<br>R3309<br>R3311<br>R3312          | 1-216-025-91<br>1-216-025-91<br>1-216-049-91                 | METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 1K<br>METAL GLAZE 100            | 5%<br>5%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |
| R3232<br>R3233<br>R3234<br>R3235<br>R3236 | 1-216-025-91<br>1-216-053-00<br>1-216-025-91                 | METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 1.5K<br>METAL GLAZE 100<br>METAL GLAZE 100 | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | R3313  | 1-216-295-91   | CONDUCTOR, CHIP   |                               |   |
| R3237<br>R3238<br>R3239<br>R3240<br>R3241 | 1-216-025-91<br>1-216-025-91<br>1-216-025-91                 | METAL GLAZE 1K METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 100               | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | X3001<br>X3002<br>X3101<br>X3102<br>X3201          | 1-567-505-11<br>1-567-878-11<br>1-577-611-11                 | OSCILALTOR, CERAM<br>OSCILLATOR, CRYST<br>VIBRATOR, CRYSTAI<br>OSCILALTOR, CERAM<br>OSCILALTOR, CERAM | AL<br>IIC                     |   |
| R3242<br>R3245<br>R3246<br>R3247<br>R3248 | 1-216-025-91<br>1-216-025-91<br>1-216-041-00                 | METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 470<br>METAL GLAZE 330  | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | X3202  |  | OSCILLATOR, CRYST   |                               | *****                                     |
| R3249<br>R3250<br>R3251<br>R3252<br>R3253 | 1-216-049-91<br>1-216-047-91<br>1-216-025-91                 | METAL GLAZE 470 METAL GLAZE 1K METAL GLAZE 820 METAL GLAZE 100 METAL GLAZE 470               | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |  |  | A BOARD, COMPLE<br>************************************   | ***                           | 35)                                       |
| R3254<br>R3255<br>R3256<br>R3257<br>R3258 | 1-216-075-00<br>1-216-081-00<br>1-216-057-00<br>1-216-049-91 | METAL GLAZE 1K ) METAL GLAZE 12K ) METAL GLAZE 22K ) METAL GLAZE 2.2K METAL GLAZE 1K         | 5%<br>5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | C001<br>C004<br>C005<br>C006                       | 1-126-933-11<br>1-126-964-11<br>1-101-004-00                 | ELECT 10MF<br>CERAMIC 0.01M   | F 20%<br>20%<br>IF            | 50V<br>16V<br>50V<br>50V                  |
| R3259<br>R3260<br>R3261<br>R3262<br>R3263 | 1-216-049-91<br>1-216-061-00<br>1-216-049-91                 | METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 3.3K METAL GLAZE 1K METAL GLAZE 220                | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | C017<br>C018<br>C019<br>C021                       | 1-163-259-91<br>1-126-960-11                                 | CERAMIC CHIP 0.047 CERAMIC CHIP 220PI ELECT 1MF CERAMIC CHIP 47PF                                     |                               | 25V<br>50V<br>50V<br>50V                  |



| CO24   | REF. NO.   | PART NO.     | DESCRIPTION         |          |       | REMARK      | REF. NO. | PART NO.     | DESCRIPTION         |               |             | REMARK      |
|--|------------|--------------|---------------------|----------|-------|-------------|----------|--------------|---------------------|---------------|-------------|-------------|
| Color  | ********** |              |                     | 0.1145   | 100   |             |          |              |                     | 4.70.45       | 200         |             |
| 1-126-993-11   ELECT   | C025       | 1-163-031-11 | CERAMIC CHIP        |          | 10%   |             | C322     | 1-130-495-00 | MYLAR               | 0.1 <b>MF</b> | 5%          | 50V         |
| CO22   |            |              |                     |          |       |             | C324     | 1-164-182-11 | CERAMIC CHIP        | 0.0033MF      | 10%         | 50V         |
| 1-16-2-29-91   CERAMIC CHIP 20PF   5%   50V   C32  | C028       | 1-107-693-11 | ELECT               | 10MF     | 20%   | 16 <b>V</b> |          |              |                     |               |             |             |
| Color  |            |              |                     |          |       |             |          |              |                     |               |             |             |
| 1-104-664-11   ELECT   27MF   20%   25V   C31   1-126-959-11   ELECT   0.47MF   20%   50V   C31   1-126-959-11   ELECT   0.47MF   20%   10V   C31   1-126-959-11   ELECT   0.47MF   20%   10V   C31   1-126-959-11   ELECT   0.47MF   20%   50V   C31   1-137-370-11   FLIM   0.0033MF   5%   50V   C31   1-126-959-11   ELECT   0.47MF   20%   50V   C31   1-137-370-11   FLIM   0.0033MF   5%   50V   C31   1-126-959-11   ELECT   0.47MF   20%   50V   C40   1-126-959-11   ELECT   0.47MF   20%   50V   C40   1-137-370-11   FLIM   0.0033MF   5%   50V   C4   |            |              |                     |          |       |             | C329     | 1-163-017-00 | CERAMIC CHIP        | 0.0047MF      | 10%         | 50V         |
| 1-162-231-11   CERAMIC CHIP 19FF   5%   50V   C331   1-126-99-11   ELECT   0-74MF   20%   50V   C332   1-164-232-11   CERAMIC CHIP 010MF   10%   50V   C335   1-164-232-11   CERAMIC CHIP 010MF   20%   50V   C335   1-126-90-11   ELECT   10MF   20%   50V   C345   |            |              |                     |          |       |             | C330     | 1-163-263-11 | CERAMIC CHIP        | 330PF         | 5%          | 50V         |
| 1-126-960-11   ELECT   | C036       | 1-163-231-11 | CERAMIC CHIP        | 15PF     | 5%    | 50V         |          |              |                     |               |             |             |
| C345   |            |              |                     |          |       |             |          |              |                     |               |             |             |
| Codd   |            |              | -                   |          |       |             | C334     | 1-163-275-11 | CERAMIC CHIP        | 0.001MF       | 5%          | 50V         |
| COMPAND   1-163-010-11   CERAMIC CHIP 0.0012MF   109   |            |              |                     |          | 10%   |             | C335     | 1-126-935-11 | ELECT               | 470MF         | 20%         | 16V         |
| COS7   |            | 1-163-010-11 | CERAMIC CHIP        | 0.0012MF | 10%   |             |          |              |                     |               |             |             |
| COS7   |            |              |                     |          |       |             |          |              |                     |               |             |             |
| Color   1-163-29-91   CERAMIC CHIP   200F   5%   50V   Color   1-163-29-11   ELECT   47MF   20%   25V   Color   1-164-004-11   CERAMIC CHIP   0.0003   50V   Color   1-162-904-11   ELECT   10MF   20%   50V   Color   1-162-904-11   ELECT   10MF   20%   50V   Color   1-162-904-11   ELECT   10MF   20%   50V   Color   1-163-29-11   ELECT   10MF   20%   50V   Color   1-164-004-11   ELECT   10MF   20%   50V    |            |              |                     |          | -~    | 5017        | C342     | 1-137-399-11 | FILM                | 0.1MF         | 5%          | 50V         |
| CION   |            |              |                     |          |       |             | C344     | 1-163-251-11 | CERAMIC CHIP        | 100PF         | 5%          | 50V         |
| C10  | C107       | 1-163-031-11 | CERAMIC CHIP        | 0.01MF   |       | 50V         |          |              |                     |               |             |             |
| C100   |            |              |                     |          |       |             |          |              |                     |               |             |             |
| CI19   |            |              |                     |          |       |             | C402     | 1-126-964-11 | ELECT               | 10MF          | 20%         | 50V         |
| C129   |            |              |                     |          |       |             | C403     | 1-137-367-11 | FILM                | 0.0033MF      | 5%          | 50 <b>V</b> |
| C124   | C119       | 1-163-227-11 | CERAMIC CHIP        | 10PF     | 0.5PF | 50V         |          |              |                     |               |             |             |
| C124   |            |              |                     |          |       |             |          |              |                     |               |             |             |
| C201   |            |              |                     |          | 0.511 |             | C407     | 1-126-960-11 | ELECT               | 1MF           | 20%         | 50V         |
| C203   |            |              |                     |          | 20%   |             | C408     | 1-137-367-11 | FILM                | 0.0033MF      | 5%          | 50V         |
| C206   | C203       | 1-126-935-11 | ELECT               | 470MF    | 20%   | 16V         |          |              |                     |               |             |             |
| C207   |            |              |                     |          |       |             |          |              |                     |               |             |             |
| C208   |            |              |                     |          |       |             | C412     | 1-126-933-11 | ELECT               | 100MF         | 20%         | 16V         |
| C209   |            |              |                     |          |       |             | C413     | 1-128-551-11 | ELECT               | 22MF          | 20%         | 25V         |
| C211   1-126-964-11   ELECT   10MF   20%   50V   C416   1-126-964-11   ELECT   10MF   20%   50V   C417   1-126-964-11   ELECT   10MF   20%   50V   C418   1-104-664-11   ELECT   47MF   20%   25V   C216   1-126-964-11   ELECT   10MF   20%   50V   C418   1-104-664-11   ELECT   47MF   20%   25V   C216   1-126-964-11   ELECT   10MF   20%   50V   C422   1-104-664-11   ELECT   22MF   20%   50V   C421   1-126-964-11   ELECT   10MF   20%   50V   C422   1-126-964-11   ELECT   22MF   20%   50V   C425   1-126-964-11   ELECT   10MF   20%   50V   C425   1-126-964-11   ELECT   10MF   20%   50V   C426   1-126-964-11   ELECT   10MF   20%   50V   C426   1-126-964-11   ELECT   10MF   20%   50V   C426   1-126-964-11   ELECT   10MF   20%   50V   C427   1-126-963-11   ELECT   10MF   20%   50V   C426   1-126-963-11   ELECT   10MF   20%   50V   C427   1-126-963-11   ELECT   10MF   20%   50V   C426   1-126-964-11   ELECT   10MF   20%   50V   C427   1-126-964-11   ELECT   10MF   20%   50V   C429   1-126-964-11   ELECT   10MF   20%   50V   C430   1-126-964-11   ELECT   10MF    | C209       | 1-126-964-11 | ELECT               | 10MF     | 20%   | 50V         |          |              |                     |               |             |             |
| C212   |            |              |                     |          |       |             |          |              |                     |               |             |             |
| C213   |            |              |                     |          |       |             | C417     | 1-126-964-11 | ELECT               | 10MF          | 20%         |             |
| C216   |            |              |                     |          |       |             | C418     | 1-104-664-11 | ELECT               | 47MF          | 20%         | 25V         |
| C219 1-126-964-11 ELECT 10MF 20% 50V C425 1-126-933-11 ELECT 10MF 20% 50V C221 1-164-004-11 ELECT 10MF 20% 25V C226 1-126-964-11 ELECT 47MF 20% 25V C226 1-126-964-11 ELECT 10MF 20% 50V C226 1-126-964-11 ELECT 10MF 20% 50V C226 1-126-964-11 ELECT 10MF 20% 50V C226 1-126-964-11 ELECT 10MF 20% 50V C227 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C301 1-126-964-11 ELECT 10MF 20% 50V C310 1-126-964-11 ELECT 10MF 20% 50V C310 1-126-964-11 ELECT 10MF 20% 50V C310 1-126-964-11 ELECT 10MF 20% 50V C310 1-126-964-11 ELECT 10MF 20% 50V C310 1-126-964-11 ELECT 10MF 20% 50V C310 1-126-964-11 ELECT 0.47MF 20% 50V C310 1-126-933-11 ELECT 0.47MF 20% 50V C310 1-126-933-11 ELECT 0.47MF 20% 50V C310 1-126-933-11 ELECT 0.47MF 20% 50V C310 1-137-399-11 FILM 0.1MF 5% 50V C311 1-15-419-11 CERAMIC CHIP 0.1MF 10% 25V C311 1-15-419-11 CERAMIC CHIP 300PF 5% 50V C311 1-137-399-11 FILM 0.1MF 5% 50V C311 1-137-399-11 FILM 0.1MF 5% 50V C311 1-137-399-11 FILM 0.1MF 5% 50V C311 1-137-399-11 FILM 0.1MF 5% 50V C311 1-137-399-11 FILM 0.1MF 5% 50V C311 1-137-399-11 FILM 0.1MF 5% 50V C311 1-137-399-11 FILM 0.1MF 5% 50V C311 1-126-933-11 ELECT 100MF 20% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C316 1-164-004-11 CERAMIC | C216       | 1-126-964-11 | ELECT               | 10MF     |       | 50V         |          |              |                     |               |             |             |
| C220 1-126-964-11 ELECT 10MF 20% 50V C427 1-126-963-11 ELECT 10MF 20% 16V C221 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C224 1-104-664-11 ELECT 47MF 20% 25V C428 1-126-967-11 ELECT 220MF 20% 50V C227 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C430 1-126-967-11 ELECT 10MF 20% 50V C229 1-126-964-11 ELECT 10MF 20% 50V C429 1-126-967-11 ELECT 10MF 20% 50V C230 1-126-964-11 ELECT 10MF 20% 50V C430 1-126-964-11 ELECT 220MF 20% 50V C230 1-126-964-11 ELECT 10MF 20% 50V C431 1-126-969-11 ELECT 220MF 50V C431 1-126-961-11 ELECT 220MF 50V C432 1-136-173-00 FILM 0.47MF 5% 50V C432 1-136-173-00 FILM 0.1MF 5% 50V C433 1-137-399-11 FILM 0.1MF 5% 50V C434 1-128-550-11 ELECT 220MF 20% 50V C435 1-137-399-11 FILM 0.1MF 5% 50V C436 1-128-548-11 ELECT 4700MF 20% 25V C436 1-128-548-11 ELECT 4700MF 20% 25V C436 1-128-548-11 ELECT 4700MF 20% 25V C436 1-128-548-11 ELECT 10MF 20% 50V C436 1-126-964-11 ELECT 10MF 20% 50V C436 1-126-933-11 ELECT 10MF 20% 50V C436 1-126-931-11 CERAMIC CHIP 0.1MF 10% 25V C440 1-126-964-11 ELECT 10MF 20% 50V C436 1-126-933-11 ELECT 10MF 20% 50V C440 1-126-964-11 ELECT 10MF 20% 50V C440 1-126-933-11 ELECT 10MF 20% 50V C440 1-126-964-11 ELECT 10MF 20% 50V C440 1-126-933-11 ELECT 10MF |            |              |                     |          | 20%   |             |          |              |                     |               |             |             |
| C221   |            |              |                     |          |       |             | C426     | 1-126-964-11 | ELECT               | 10MF          | 20%         | 50V         |
| C224 1-104-664-11 ELECT 47MF 20% 25V C428 1-126-969-11 ELECT 220MF 20% 50V C226 1-126-964-11 ELECT 10MF 20% 50V C429 1-126-964-11 ELECT 10MF 20% 50V C429 1-126-964-11 ELECT 10MF 20% 50V C430 1-126-964-11 ELECT 10MF 20% 50V C431 1-126-964-11 ELECT 220MF 20% 50V C431 1-126-964-11 ELECT 10MF 20% 50V C432 1-136-173-00 FILM 0.47MF 5% 50V C330 1-126-964-11 ELECT 10MF 20% 10V C331 1-126-933-11 ELECT 10MF 20% 50V C432 1-136-173-00 FILM 0.1MF 5% 50V C331 1-126-959-11 ELECT 10MF 20% 50V C432 1-136-173-00 FILM 0.1MF 5% 50V C332 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C434 1-128-550-11 ELECT 2200MF 20% 50V C435 1-137-399-11 FILM 0.1MF 5% 50V C436 1-128-548-11 ELECT 4700MF 20% 25V C304 1-126-964-11 ELECT 10MF 20% 50V C437 1-128-548-11 ELECT 4700MF 20% 25V C304 1-126-964-11 ELECT 10MF 20% 50V C437 1-128-548-11 ELECT 4700MF 20% 25V C304 1-126-933-11 ELECT 10MF 20% 50V C440 1-126-964-11 ELECT 10MF 20% 50V C308 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C441 1-126-964-11 ELECT 10MF 20% 50V C308 1-163-313-00 CERAMIC CHIP 0.1MF 10% 25V C441 1-126-964-11 ELECT 10MF 20% 50V C310 1-163-133-00 CERAMIC CHIP 470PF 5% 50V C1101 1-163-031-11 CERAMIC CHIP 0.01MF 50V C311 1-115-419-11 CERAMIC CHIP 3300PF 5% 25V C312 1-126-959-11 ELECT 0.47MF 20% 50V C1103 1-126-960-11 ELECT 10MF 20% 50V C313 1-137-399-11 FILM 0.1MF 5% 50V C1105 1-126-960-11 ELECT 10MF 20% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 5% 50V C1106 1-126-933-11 ELECT 10MF 20% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1106 1-126-933-11 ELECT 10MF 20% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1106 1-126-933-11 ELECT 10MF 20% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1106 1-126-933-11 ELECT 10MF 20% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1106 1-126-933-11 ELECT 10MF 20% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1106 1-126-903-11 ELECT 10MF 20% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1106 1-164-041 ELECT 10MF 20% 50V C316 1-164-04-11 CERAMIC CHIP 0.01MF 10% 50V C1106 1-164-04-11 CERAMIC CHIP 0.01MF 50V C316 1-164-04-11 CERAMIC  | CO01       |              |                     |          |       |             | C427     | 1-126-933-11 | ELECT               | 100MF         | 20%         | 16V         |
| C227 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C430 1-126-964-11 ELECT 10MF 20% 50V C230 1-126-964-11 ELECT 10MF 20% 50V C231 1-126-964-11 ELECT 10MF 20% 50V C231 1-126-933-11 ELECT 10MF 20% 50V C312 1-126-933-11 ELECT 10MF 20% 50V C302 1-126-959-11 ELECT 0.47MF 20% 50V C302 1-126-959-11 ELECT 0.47MF 20% 50V C303 1-163-031-11 CERAMIC CHIP 0.01MF 5% 50V C435 1-137-399-11 FILM 0.1MF 5% 50V C436 1-128-548-11 ELECT 4700MF 20% 25V C437 1-128-548-11 ELECT 4700MF 20% 25V C304 1-126-964-11 ELECT 10MF 20% 50V C436 1-128-548-11 ELECT 4700MF 20% 25V C305 1-163-031-11 CERAMIC CHIP 0.1MF 10% 25V C440 1-126-964-11 ELECT 10MF 20% 50V C305 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C441 1-126-964-11 ELECT 10MF 20% 50V C310 1-163-133-00 CERAMIC CHIP 0.1MF 10% 25V C311 1-115-419-11 CERAMIC CHIP 3000F 5% 25V C312 1-126-993-11 ELECT 0.47MF 20% 50V C313 1-137-399-11 FILM 0.1MF 5% 50V C313 1-137-399-11 FILM 0.1MF 5% 50V C314 1-137-399-11 FILM 0.1MF 5% 50V C315 1-137-399-11 FILM 0.1MF 5% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C317 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C318 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 50V C319 1-164-004-11 | C224       | 1-104-664-11 | ELECT               | 47MF     | 20%   | 25V         |          |              |                     |               |             |             |
| C229 1-126-964-11 ELECT 10MF 20% 50V C432 1-136-173-00 FILM 0.47MF 5% 50V C432 1-136-173-00 FILM 0.47MF 5% 50V C432 1-136-173-00 FILM 0.47MF 5% 50V C432 1-136-173-00 FILM 0.1MF 5% 50V C432 1-164-004-11 CERAMIC CHIP 0.11MF 10% 25V C433 1-137-399-11 FILM 0.1MF 5% 50V C435 1-137-399-11 FILM 0.1MF 5% 50V C436 1-128-548-11 ELECT 2200MF 20% 50V C436 1-128-548-11 ELECT 4700MF 20% 25V C436 1-128-548-11 ELECT 4700MF 20% 25V C436 1-128-548-11 ELECT 4700MF 20% 25V C436 1-128-548-11 ELECT 4700MF 20% 25V C436 1-128-548-11 ELECT 4700MF 20% 25V C436 1-128-548-11 ELECT 4700MF 20% 25V C440 1-126-964-11 ELECT 10MF 20% 50V C440 1-126-964-11 ELECT 10MF 20% 50V C441 1-126-964-11 ELECT 10MF 20% 50V C441 1-126-964-11 ELECT 10MF 20% 50V C441 1-126-964-11 ELECT 10MF 20% 50V C441 1-126-964-11 ELECT 10MF 20% 50V C441 1-126-964-11 ELECT 10MF 20% 50V C1101 1-163-031-11 CERAMIC CHIP 0.01MF 50V C1102 1-163-031-11 CERAMIC CHIP 0.01MF 50V C1102 1-163-031-11 CERAMIC CHIP 0.01MF 50V C1102 1-163-031-11 CERAMIC CHIP 0.01MF 50V C1103 1-126-933-11 ELECT 100MF 20% 16V C1103 1-126-933-11 ELECT 100MF 20% 50V C1103 1-126-960-11 ELECT 10MF 20% 50V C1105 1-126-960-11 ELECT 10MF 20% 50V C1106 1-126-933-11 ELECT 10MF 20% 50V C1107 1-104-664-11 ELECT 10MF 20% 50V C1108 1-126-960-11 ELECT 10MF 20% 50V C1107 1-104-664-11 ELECT 10MF 20% 50V C1108 1-126-964-11 ELECT 10MF 20% 50V C1109 1-126-933-11 ELECT 10MF 20% 50V C1109 1-126-933-11 ELECT 10MF 20% 50V C1109 1-126-964-11 ELECT 10MF 20% 50V C1101 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C1101 1-164 |            |              |                     |          |       |             |          |              |                     |               |             |             |
| C230 1-126-964-11 ELECT 10MF 20% 50V C231 1-126-933-11 ELECT 10MF 20% 16V C332 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C434 1-128-550-11 ELECT 2200MF 20% 50V C436 1-128-548-11 ELECT 4700MF 20% 25V C436 1-128-548-11 ELECT 4700MF 20% 25V C436 1-128-548-11 ELECT 4700MF 20% 25V C436 1-128-548-11 ELECT 4700MF 20% 25V C437 1-128-548-11 ELECT 4700MF 20% 25V C436 1-128-548-11 ELECT 4700MF 20% 25V C437 1-128-548-11 ELECT 4700MF 20% 25V C437 1-128-548-11 ELECT 10MF 20% 50V C305 1-163-231-11 CERAMIC CHIP 15PF 5% 50V C440 1-126-964-11 ELECT 10MF 20% 50V C308 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C441 1-126-964-11 ELECT 10MF 20% 50V C309 1-126-933-11 ELECT 100MF 20% 16V C1101 1-163-031-11 CERAMIC CHIP 0.01MF 50V C1102 1-163-031-11 CERAMIC CHIP 0.01MF 50V C1102 1-163-031-11 CERAMIC CHIP 0.01MF 50V C1103 1-137-399-11 FILM 0.1MF 5% 50V C1104 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C1105 1-126-933-11 ELECT 100MF 20% 50V C1106 1-126-933-11 ELECT 100MF 20% 50V C1106 1-126-933-11 ELECT 100MF 20% 50V C1107 1-104-664-11 ELECT 100MF 20% 50V C1107 1-104-604-11 ELECT 100MF 2 |            |              |                     |          |       |             | C431     | 1-126-969-11 | ELECT               | 220MF         | 20%         | 50V         |
| C231 1-126-933-11 ELECT 100MF 20% 16V C433 1-137-399-11 FILM 0.1MF 5% 50V C332 1-126-959-11 ELECT 0.47MF 20% 50V C435 1-137-399-11 FILM 0.1MF 5% 50V C436 1-128-548-11 ELECT 4700MF 20% 25V C303 1-163-031-11 CERAMIC CHIP 0.01MF 50V C305 1-163-231-11 CERAMIC CHIP 15PF 5% 50V C305 1-163-231-11 CERAMIC CHIP 15PF 5% 50V C308 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C440 1-126-964-11 ELECT 10MF 20% 50V C309 1-126-933-11 ELECT 100MF 20% 16V C1101 1-163-031-11 CERAMIC CHIP 0.01MF 50V C310 1-163-133-00 CERAMIC CHIP 470PF 5% 50V C1102 1-163-031-11 CERAMIC CHIP 0.01MF 50V C311 1-115-419-11 CERAMIC CHIP 3300PF 5% 25V C312 1-126-959-11 ELECT 0.47MF 20% 50V C1103 1-126-933-11 ELECT 100MF 20% 50V C314 1-137-399-11 FILM 0.1MF 5% 50V C1104 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C315 1-137-399-11 FILM 0.1MF 5% 50V C1106 1-126-933-11 ELECT 100MF 20% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1106 1-126-933-11 ELECT 10MF 20% 50V C1107 1-104-664-11 ELECT 10MF 20% 50V C1107 1-104 |            |              |                     |          |       |             | C432     | 1-136-173-00 | FILM                | 0.47MF        | 5%          | 50V         |
| C302 1-126-959-11 ELECT 0.47MF 20% 50V C435 1-137-399-11 FILM 0.1MF 5% 50V C303 1-163-031-11 CERAMIC CHIP 0.01MF 20% 50V C304 1-126-964-11 ELECT 10MF 20% 50V C305 1-163-231-11 CERAMIC CHIP 15PF 5% 50V C308 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C309 1-126-933-11 ELECT 10MF 20% 10V C310 1-163-031-11 CERAMIC CHIP 470PF 5% 50V C311 1-115-419-11 CERAMIC CHIP 3300PF 5% 25V C312 1-126-959-11 ELECT 0.47MF 20% 50V C313 1-137-399-11 FILM 0.1MF 5% 50V C314 1-137-399-11 FILM 0.1MF 5% 50V C315 1-137-399-11 FILM 0.1MF 5% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 5% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C317 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C318 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C311 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C311 1-164-004-11 CERAMIC CHIP 0.01MF 50V C311 1-163-031-11 CERAMIC CHIP 0.01MF 50V C311 1-163-031-11 CERAMIC CHIP 0.01MF 50V C311 1-163-031-11 CERA | C231       | 1-126-933-11 | ELECT               | 100MF    | 20%   | 16V         |          |              |                     |               |             |             |
| C303 1-163-031-11 CERAMIC CHIP 0.01MF 50V C304 1-126-964-11 ELECT 10MF 20% 50V C305 1-163-231-11 CERAMIC CHIP 15PF 5% 50V C308 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C440 1-126-964-11 ELECT 10MF 20% 50V C309 1-126-933-11 ELECT 100MF 20% 16V C310 1-163-133-00 CERAMIC CHIP 470PF 5% 50V C311 1-115-419-11 CERAMIC CHIP 3300PF 5% 25V C312 1-126-959-11 ELECT 0.47MF 20% 50V C313 1-137-399-11 FILM 0.1MF 5% 50V C314 1-137-399-11 FILM 0.1MF 5% 50V C315 1-137-399-11 FILM 0.1MF 5% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C317 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C318 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 20% 50V C319 |            |              |                     |          |       |             |          |              |                     |               |             |             |
| C304   | G202       | 1 162 021 11 | CED ANG CUID        | 0.013.65 |       | 5037        |          |              | ELECT               | 4700MF        | 20%         | 25V         |
| C308   |            |              |                     |          | 20%   |             | C437     | 1-128-348-11 | ELECT               | 4/00MF        | 20%         | 25V         |
| C309 1-126-933-11 ELECT 100MF 20% 16V C1101 1-163-031-11 CERAMIC CHIP 0.01MF 50V C1102 1-163-031-11 CERAMIC CHIP 0.01MF 50V C1102 1-163-031-11 CERAMIC CHIP 0.01MF 50V C1103 1-126-933-11 ELECT 100MF 20% 16V C1103 1-126-953-11 ELECT 100MF 20% 16V C1103 1-126-959-11 ELECT 0.47MF 20% 50V C1104 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C1104 1-137-399-11 FILM 0.1MF 5% 50V C1105 1-126-960-11 ELECT 1MF 20% 50V C1106 1-126-933-11 ELECT 100MF 20% 16V C1107 1-104-664-11 ELECT 100MF 20% 16V C1107 1-104-664-11 ELECT 47MF 20% 50V C1108 1-126-964-11 ELECT 10MF 20% 50V C1108 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1109 1-126-933-11 ELECT 100MF 20% 16V C1108 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1109 1-126-964-11 ELECT 10MF 20% 50V C1110 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C1111 1-126-960-11 ELECT 1 MF 20% 50V C1111 1-12 | C305       |              |                     |          |       |             |          |              |                     |               |             |             |
| C310 1-163-133-00 CERAMIC CHIP 470PF 5% 50V C1103 1-126-933-11 ELECT 100MF 20% 16V C311 1-115-419-11 CERAMIC CHIP 3300PF 5% 25V C312 1-126-959-11 ELECT 0.47MF 20% 50V C1103 1-126-960-11 ELECT 100MF 20% 50V C313 1-137-399-11 FILM 0.1MF 5% 50V C1105 1-126-960-11 ELECT 1MF 20% 50V C314 1-137-399-11 FILM 0.1MF 5% 50V C1106 1-126-933-11 ELECT 100MF 20% 16V C315 1-137-399-11 FILM 0.1MF 5% 50V C1106 1-126-933-11 ELECT 100MF 20% 25V C315 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C317 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C318 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C318 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 50V C110 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C1111 1-126-960-11 ELECT 1MF 20% 50V C1112 1-163-031-11 CERAMIC CHIP 0.01MF 50V  |            |              |                     |          |       |             |          |              |                     |               | 20%         |             |
| C311 1-115-419-11 CERAMIC CHIP 3300FF 5% 25V C312 1-126-959-11 ELECT 0.47MF 20% 50V C1104 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C313 1-137-399-11 FILM 0.1MF 5% 50V C1105 1-126-960-11 ELECT 1MF 20% 50V C1106 1-126-933-11 ELECT 100MF 20% 16V C1107 1-104-664-11 ELECT 47MF 20% 25V C315 1-137-399-11 FILM 0.1MF 5% 50V C1106 1-126-964-11 ELECT 47MF 20% 25V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C317 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C318 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C318 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C110 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.01MF 10% 25V C1111 1-126-960-11 ELECT 1MF 20% 50V C1112 1-163-031-11 CERAMIC CHIP 0.01MF 50V   | C210       | 1 162 122 00 | CED ALVIC CUID      | 470DE    | F.01  | 6037        |          | 1-163-031-11 | <b>CERAMIC CHIP</b> | 0.01MF        | 200         | 50V         |
| C312 1-126-959-11 ELECT 0.47MF 20% 50V C1104 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C133 1-137-399-11 FILM 0.1MF 5% 50V C1105 1-126-960-11 ELECT 1MF 20% 50V C1105 1-126-933-11 ELECT 100MF 20% 16V C1107 1-104-664-11 ELECT 100MF 20% 25V C1107 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1108 1-126-933-11 ELECT 10MF 20% 50V C1108 1-126-933-11 ELECT 100MF 20% 50V C1108 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1109 1-126-933-11 ELECT 100MF 20% 50V C1108 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1109 1-126-933-11 ELECT 100MF 20% 16V C1109 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C1110 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C1111 1-126-960-11 ELECT 100MF 20% 50V C1111 1-1 |            |              |                     |          |       |             | C1103    | 1-120-933-11 | ELECT               | IUUMF         | 20%         | 101         |
| C314 1-137-399-11 FILM 0.1MF 5% 50V C1106 1-126-933-11 ELECT 100MF 20% 16V C1107 1-104-664-11 ELECT 47MF 20% 25V C315 1-137-399-11 FILM 0.1MF 5% 50V C1108 1-126-964-11 ELECT 10MF 20% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C317 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C318 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C110 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C319 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C111 1-126-960-11 ELECT 1MF 20% 50V C1112 1-163-031-11 CERAMIC CHIP 0.01MF 50V   | C312       | 1-126-959-11 | ELECT               | 0.47MF   | 20%   | 50V         |          |              |                     |               |             |             |
| C315 1-137-399-11 FILM 0.1MF 5% 50V C1108 1-126-964-11 ELECT 47MF 20% 50V C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C317 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C318 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C110 1-164-161-11 CERAMIC CHIP 0.002MF 10% 50V C110 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C111 1-126-960-11 ELECT 1MF 20% 50V C111 1-126-960-11 ELECT 1MF 20% 50V C111 1-126-960-11 ELECT 1MF 20% 50V C111 1-164-004-11 CERAMIC CHIP 0.0021MF 50V C111 1-163-031-11 CERAMIC CHIP 0.01MF 50V   |            |              |                     |          |       |             |          |              |                     |               |             |             |
| C316 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V<br>C317 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V<br>C318 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V<br>C319 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V<br>C319 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V<br>C1111 1-126-960-11 ELECT 1MF 20% 50V<br>C1112 1-163-031-11 CERAMIC CHIP 0.01MF 50V  |            |              |                     |          |       |             | C1107    | 1-104-664-11 | ELECT               | 47MF          | 20%         | 25V         |
| C317 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1109 1-126-933-11 ELECT 100MF 20% 16V C318 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1110 1-164-161-11 CERAMIC CHIP 0.0022MF 10% 50V C1111 1-126-960-11 ELECT 1MF 20% 50V C1112 1-163-031-11 CERAMIC CHIP 0.01MF 50V  |            |              |                     |          |       |             | C1108    | 1-120-904-11 | ELECI               | IUMP          | <i>2</i> U% | <b>50V</b>  |
| C319 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C1111 1-126-960-11 ELECT 1MF 20% 50V C1112 1-163-031-11 CERAMIC CHIP 0.01MF 50V   | C317       | 1-164-232-11 | <b>CERAMIC CHIP</b> | 0.01MF   | 10%   | 50V         |          |              |                     |               |             |             |
| C1112 1-163-031-11 CERAMIC CHIP 0.01MF 50V   |            |              |                     |          |       |             |          |              |                     |               |             |             |
| C320 1-100-000-11 CERAMIC CRIF U.IMF 1070 23V C1113 1-120-904-11 ELECT 10MF 20% 50V  |            |              |                     |          |       |             | C1112    | 1-163-031-11 | <b>CERAMIC CHIP</b> | 0.01MF        |             | 50V         |
|  | C320       | 1-104-004-11 | CERNINIC CHIP       | O.IIVIF  | 1070  | <i>23</i> ₹ | 01113    | 1-120-904-11 | ELECI               | TOIVIL        | ZU70        | 30 <b>V</b> |

The componants identified by shading and mark ∆ are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque 🐧 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



| specified.                                   | ,                            | piece porta                  | ant le numero  |            |              |                |                |   | تت                                     |
|--|------------------------------|------------------------------|----------------|------------|--------------|----------------|----------------|---|--|
| REF. NO.                                     | PART NO.                     | DESCRIPTION                  |                |            | REMARK       | REF. NO.       | PART NO.       | DESCRIPTION                             | REMARK                                 |
| C1114<br>C1115                               |                              | CERAMIC CHIP<br>CERAMIC CHIP |                |            | 50V<br>50V   | D206           |                | DIODE DTZ10B                            |  |
| C1116  |                              | <b>CERAMIC CHIP</b>          |                |            | 50V          | D207           |                | DIODE DTZ10B                            |  |
| C1117  | 1-163-031-11                 | CERAMIC CHIP                 | 0.01MF         |            | 50V          | D208           |                | DIODE DTZ10B                            |  |
| C1118  | 1-163-031-11                 | CERAMIC CHIP                 | 0.01 <b>MF</b> |            | 50V          | D209           |                | DIODE DTZ10B                            |  |
|  |                              |                              | 1001 45        | 000        | £011         | D210           |                | DIODE DTZ10B<br>DIODE DTZ10B            |  |
| C1119  | 1-126-968-11                 |                              | 100MF          | 20%<br>20% | 50V<br>16V   | D211           | 0-/19-9//-20   | DIODE DIZIOB                            |  |
| C1120  | 1-126-933-11<br>1-104-664-11 |                              | 100MF<br>47MF  | 20%<br>20% | 25V          | D212           | 8-719-977-28   | DIODE DTZ10B                            |  |
| C1122<br>C1501                               |                              | CERAMIC CHIP                 |                | 10%        | 50V          | D213           | 8-719-977-28   | DIODE DTZ10B                            |  |
| C1502  | 1-107-504-11                 |                              | 10PF           | 0.5PF      | 500V         | D214           |                | DIODE RD10ESB2                          |  |
| C1502  | 1 10/ 501 11                 |                              |                |            | •            | D215           | 8-719-110-17   | DIODE RD10ESB2                          |  |
| C1503  | 1-136-177-00                 | FILM                         | 1MF            | 5%         | 50V          | D216           | 8-719-110-17   | DIODE RD10ESB2                          |  |
| C1506  | 1-126-969-11                 | ELECT                        | 220MF          | 20%        | 50V          |                | 0.510.110.15   | DIODE DD10EGDG                          |  |
| C1507  |                              | CERAMIC CHIP                 | 47PF           | 5%         | 50V          | D217           | 8-719-110-17   | DIODE RD10ESB2                          |  |
| C1508  | 1-137-378-11                 | FILM<br>CERAMIC CHIP         | 0.22MF         | 5%         | 50V<br>50V   | D218<br>D219   |                | DIODE RD10ESB2<br>DIODE RD10ESB2        |  |
| C1509  | 1-103-251-11                 | CERAMIC CHIP                 | IUUPF          | 5%         | 30 <b>v</b>  | D219           |                | DIODE RD10ESB2                          |  |
| C1510  | 1-126-942-61                 | FIECT                        | 1000MF         | 20%        | 25V          | D221           |                | DIODE RD10ESB2                          |  |
| C1511  | 1-126-942-61                 |                              | 1000MF         | 20%        | 25V          |                | •              |   |  |
| C1513  |                              | CERAMIC CHIP                 |                |            | 50V          | D222           | 8-719-110-17   | DIODE RD10ESB2                          |  |
| C1514  |                              | CERAMIC CHIP                 |                |            | 50V          | D225           |                | DIODE RD10ESB2                          |  |
| C1517  | 1-126-964-11                 | ELECT                        | 10 <b>MF</b>   | 20%        | 50V          | D226           |                | DIODE RD10ESB2                          |  |
|  |                              |                              |                |            | 4.477        | D232           |                | DIODE MTZJ-T-77-36B                     |  |
| C1518  | 1-126-933-11                 |                              | 100MF          | 20%        | 16V          | D236           | 8-/19-110-1/   | DIODE RD10ESB2                          |  |
| C1519  | 1-126-933-11                 |                              | 100MF<br>10MF  | 20%<br>20% | 16V<br>50V   | D237           | 8-719-110-17   | DIODE RD10ESB2                          |  |
| C1520  | 1-126-964-11                 | CERAMIC CHIP                 | 10MF           | 10%        | 50V          | D237           |                | DIODE RD10ESB2                          |  |
| C1521<br>C1522                               |                              | CERAMIC CHIP                 |                | 10%        | 25 <b>V</b>  | D239           |                | DIODE 1SS133T-77                        |  |
| CIJZZ  | 1-104-004-11                 | CERTAINIC CIII               | 0.11.22        | 10.0       |              | D240           |                | DIODE 1SS133T-77                        |  |
| C1523  | 1-163-005-11                 | <b>CERAMIC CHIP</b>          | 470PF          | 10%        | 50V          | D241           | 8-719-991-33   | DIODE 1SS133T-77                        |  |
| C1524  | 1-137-150-11                 |                              | 0.01MF         | 10%        | 100V         |                |                |   |  |
| C1601  | 1-126-933-11                 |                              | 100MF          | 20%        | 16V          | D303           |                | DIODE 188133T-77                        |  |
| C1602  | 1-126-933-11                 |                              | 100MF          | 20%        | 16V          | D305           |                | DIODE 1SS133T.77                        |  |
| C1603  | 1-126-916-11                 | ELECT                        | 1000MF         | 20%        | 6.3V         | D401<br>D403   |                | DIODE 1SS133T-77<br>DIODE MTZJ-T-77-36B |  |
| C1604  | 1-126-934-11                 | EI ECT                       | 220MF          | 20%        | 16V          | D405           |                | DIODE ISSI33T-77                        |  |
| C1604<br>C1605                               | 1-120-934-11                 | CERAMIC CHIP                 | 0.01MF         | 2070       | 50V          | 2403           | 0 /15 //1 55   | 21022 1001001                           |  |
| C1605  | 1-163-031-11                 | CERAMIC CHIP                 | 0.01MF         |            | 50V          | D406           | 8-719-991-33   | DIODE 1SS133T-77                        |  |
| C1607  |                              | CERAMIC CHIP                 |                |            | 50V          | D408           | 8-719-991-33   | DIODE 1SS133T-77                        |  |
| C1608  |                              | CERAMIC CHIP                 |                |            | 50V          | D410           |                | DIODE MTZJ-T-77-36B                     |  |
|  |                              |                              |                |            |              | D411           |                | DIODE HZS9.1NB2                         |  |
| C1609  |                              | CERAMIC CHIP                 |                | 200        | 50V          | D1101          | 8-719-982-26   | DIODE MTZJ-33B                          |  |
| C1610  | 1-126-933-11                 |                              | 100MF          | 20%        | 16V          | D1102          | 9 710 077 29   | DIODE DTZ10B                            |  |
| C1611  | 1-103-031-11                 | CERAMIC CHIP                 | U.UIMIP        |            | 50V          | D1102<br>D1103 |                | DIODE DIZIOB                            |  |
|  |                              |                              |                |            |              | D1104          |                | DIODE DTZ10B                            |  |
|  |                              | <connector></connector>      |                |            |              | D1105          |                | DIODE DTZ10B                            |  |
|  |                              | 1001111201010                |                |            |              | D1106          | 8-719-977-28   | DIODE DTZ10B                            |  |
| CN001  | *1-564-507-11                | PLUG, CONNEC                 | CTOR 4P        |            |              |                |                |   |  |
| CN002  | *1-564-511-11                | PLUG, CONNEC                 | CTOR 8P        |            |              | D1107          | 8-719-977-28   | DIODE DTZ10B                            |  |
| CN003  | *1-774-183-11                | CONNECTOR, E                 | SOARD TO       | BOARI      | 010P         | D1501          | 8-719-109-89   | DIODE RD5.6ESB2                         |  |
| CN004  | 1-573-979-21                 | CONNECTOR, I                 | SOARD TO       | ) ROAK     | D 11P        | D1502          | 8-719-908-03   | DIODE GP08D                             |  |
| CN301  | * 1-7/4-183-11               | CONNECTOR, E                 | SOARD IC       | BOAKI      | JIUP         | 1              |                |   |  |
| CN302  | *1-564-508-11                | PLUG, CONNEC                 | TOR SP         |            |              |                |                | <ferrite bead=""></ferrite>             |  |
| CN303  |                              | PLUG, CONNEC                 |                |            |              | 1              |                |   |  |
| CN304  | 1-770-155-21                 | CONNECTOR, I                 | SOARD TO       | BOAR       | D 8P         | FB1102         | 1-414-135-11   | INDUCTOR CHIP OUH                       |  |
| CN305  | 1-573-298-21                 | CONNECTOR, I                 | BOARD TO       | BOAR       | D 20P        |                |                |   |  |
| CN401  | *1-564-507-11                | PLUG, CONNEC                 | CTOR 4P        |            |              |                |                | 40.                                     |  |
| <b>C 1</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | +1 5/4 50/ 11                | DI LIC CONVEC                | TTOD 2D        |            |              | 1              |                | <ic></ic>                               |  |
| CN402  |                              | PLUG, CONNEC                 |                |            |              | IC001          | 8-752-886-54   | IC CXP85856A-002S                       |  |
| CN403  | *1-204-202-11                | PLUG, CONNEC                 | TOR 2F         |            |              | IC001          |                | IC CXP85112B-613S                       |  |
| CNITO  | *1-564-506-11                | PLUG, CONNEC                 | TOR 3P         |            |              | IC003          |                | IC PST9143NL                            |  |
| CN1601                                       | *1-774-183-11                | CONNECTOR, I                 | BOARD TO       | BOARI      | D10P         | IC004          |                | IC PST9143NL                            |  |
|  |                              |                              |                |            |              | IC007          | 8-759-518-23   | IC X24C04S8                             |  |
| CN1602                                       | *1-774-183-11                | CONNECTOR, I                 | BOARD TO       | DBOARI     | D10 <b>P</b> |                |                |   |  |
| ·  |                              |                              |                |            |              | IC201          | 8-759-366-78   | IC MM1313AD                             |  |
|  |                              | -DIODE                       |                |            |              |                |                | IC CXA2025AS<br>IC BH3856FS-E2          | ************************************** |
|  |                              | <diode></diode>              |                |            |              | IC401<br>IC402 |                | 5 IC uPC4558G2                          |  |
| TV01   | 9_710_001_22                 | DIODE 1SS1337                | r_ <b>77</b>   |            |              | IC402          |                | 3 IC TDA7262                            |  |
| D001<br>D002                                 |                              | DIODE ISSISSI                |                |            |              | 10403          | U , J J UUJ-1. |   |  |
| D002<br>D003                                 |                              | DIODE 1881337                |                |            |              | IC1101         | 8-759-231-53   | 3 IC TA7805S                            |  |
| D003   |                              | DIODE 1881337                |                |            |              | IC1501         | 8-759-192-71   | IC STV9379                              |  |
| D007   |                              | DIODE RD5.6E                 |                |            |              | IC1502         | 8-759-251-31   | IC CA0007AM                             |  |
|  |                              |                              |                |            |              | IC1601         |                | 3 IC PQ09RF21                           |  |
| D010   |                              | DIODE RD5.6E                 |                |            |              | IC1602         | 8-759-231-53   | 3 IC TA7805S                            |  |
| D011   |                              | DIODE RD5.6E                 |                |            |              |                |                |   |  |
| D202   |                              | DIODE RD10ES                 |                |            |              | 1              |                |   |  |
| D203   | 9-113-103-82                 | DIODE RD5.6E                 | 3D2            |            |              | i              |                |   |  |



| REF. NO.                                       | PART NO.   | DESCRIPTION   | REMARK | REF. NO.                             | PART NO.   | DESCRIPTION  |                            | REMARK                                    |
|--|--|---|--------|--------------------------------------|--|--|----------------------------|---|
| J203   | 1-507-667-00   | <jack></jack>   |        | Q003<br>Q004                         | 8-729-216-22   | TRANSISTOR DTA144EK<br>TRANSISTOR 2SA1162-G  | A-T146                     |   |
| J205<br>J206<br>J208<br>J209                   | 1-774-750-11<br>1-774-749-11<br>1-774-749-11                 | JACK, MIC<br>JACK BLOCK, PIN<br>JACK BLOCK, PIN<br>JACK BLOCK, PIN<br>TERMINAL BLOCK, S     |        | Q005<br>Q006<br>Q007<br>Q008<br>Q009 | 8-729-027-38<br>8-729-027-59<br>8-729-422-27                 | TRANSISTOR 2SA1162-G TRANSISTOR DTA144EK TRANSISTOR DTC144EK TRANSISTOR 2SD601A-Q TRANSISTOR DTA144EK                | A-T146                     |   |
|  |  | <chip conductor=""></chip>  |        | Q013                                 | 8-729-422-27   | TRANSISTOR 2SD601A-Q   | !                          |   |
| JR201<br>JR202<br>JR1501<br>JR1502<br>JR1601   | 1-216-295-91<br>1-216-295-91<br>1-216-295-91                 | CONDUCTOR, CHIP<br>CONDUCTOR, CHIP<br>CONDUCTOR, CHIP<br>CONDUCTOR, CHIP<br>CONDUCTOR, CHIP |        | Q015<br>Q016<br>Q017<br>Q201<br>Q206 | 8-729-422-27<br>8-729-422-27<br>8-729-422-27                 | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR DTC143TK  |                            |   |
| JR1603<br>JR1604<br>JR1605<br>JR1607<br>JR1609 | 1-216-295-91<br>1-216-295-91<br>1-216-295-91                 | CONDUCTOR, CHIP<br>CONDUCTOR, CHIP<br>CONDUCTOR, CHIP<br>CONDUCTOR, CHIP<br>CONDUCTOR, CHIP |        | Q207<br>Q209<br>Q213<br>Q214<br>Q216 | 8-729-027-56<br>8-729-216-22<br>8-729-216-22                 | TRANSISTOR DTC144EK.<br>TRANSISTOR DTC143TK.<br>TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA1162-G<br>TRANSISTOR DTC143TK. | A-T146                     |   |
| JR1610<br>JR1611<br>JR1612<br>JR1613<br>JR1614 | 1-216-295-91<br>1-216-295-91<br>1-216-295-91<br>1-216-295-91 | CONDUCTOR, CHIP<br>CONDUCTOR, CHIP<br>CONDUCTOR, CHIP<br>CONDUCTOR, CHIP<br>CONDUCTOR, CHIP |        | Q217<br>Q218<br>Q219<br>Q220<br>Q226 | 8-729-422-27<br>8-729-422-27<br>8-729-422-27                 | TRANSISTOR DTC143TK.<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q |                            |   |
| JR1615<br>JR1617<br>JR1619<br>JR1620<br>JR1621 | 1-216-295-91<br>1-216-295-91<br>1-216-295-91<br>1-216-295-91 | CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP             |        | Q301<br>Q302<br>Q303<br>Q304<br>Q305 | 8-729-216-22<br>8-729-422-27<br>8-729-422-27                 | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q |                            |   |
| JR1622<br>JR1623<br>JR1624<br>JR1625<br>JR1626 | 1-216-295-91<br>1-216-295-91<br>1-216-295-91<br>1-216-295-91 | CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP             |        | Q306<br>Q307<br>Q308<br>Q311<br>Q312 | 8-729-422-27<br>8-729-216-22<br>8-729-422-27                 | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q |                            |   |
| JR1627   |  | CONDUCTOR, CHIP   |        | Q313<br>Q314<br>Q402<br>Q403<br>Q403 | 8-729-422-27<br>8-729-027-59<br>8-729-027-38                 | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR DTC144EK.<br>TRANSISTOR DTA144EK.<br>TRANSISTOR 2SA1162-G | A-T146                     |   |
| L002<br>L003<br>L004<br>L005<br>L006           | 1-410-482-31<br>1-216-295-91<br>1-216-295-91                 | INDUCTOR 100UH INDUCTOR 100UH CONDUCTOR, CHIP CONDUCTOR, CHIP INDUCTOR 10UH                 |        | Q406<br>Q408<br>Q409<br>Q410<br>Q411 | 8-729-216-22<br>8-729-422-27<br>8-729-422-27<br>8-729-422-27 | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR DTA144EK  |                            |   |
| L007<br>L201<br>L302<br>L303<br>L1101          | 1-410-478-11<br>1-410-482-31<br>1-410-470-11                 | INDUCTOR 100UH INDUCTOR 47UH INDUCTOR 100UH INDUCTOR 10UH INDUCTOR 47UH                     |        | Q1101<br>Q1501<br>Q2105<br>Q2106     | 8-729-422-27<br>8-729-422-27                                 | TRANSISTOR DTC144EK,<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q                         |                            |   |
| L1103<br>L1104                                 | 1-410-478-11   | INDUCTOR 47UH<br>INDUCTOR 47UH  |        |                                      |  | <resistor></resistor>  |                            |   |
| L1105<br>L1106<br>L1501                        | 1-410-478-11   | INDUCTOR 10UH INDUCTOR 47UH INDUCTOR 8.2UH  |        | R003<br>R004<br>R005<br>R006         | 1-216-033-00<br>1-216-033-00                                 | CONDUCTOR, CHIP<br>METAL GLAZE 220<br>METAL GLAZE 220<br>METAL GLAZE 220   | 5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W                   |
| L1502<br>L1503                                 |  | INDUCTOR 47UH<br>INDUCTOR 47UH  |        | R007<br>R008                         |  | METAL GLAZE 22K METAL GLAZE 10K  | 5%                         | 1/10W                                     |
| NL1501   | 1-519-108-99   | <neon lamp=""> LAMP, NEON</neon>  |        | R009<br>R010<br>R011<br>R012         | 1-216-033-00<br>1-216-033-00<br>1-216-033-00                 | METAL GLAZE 10K<br>METAL GLAZE 220<br>METAL GLAZE 220<br>METAL GLAZE 220<br>METAL GLAZE 220                          | 5%<br>5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W |
|  |  | <ic link=""></ic>   |        | R013<br>R014                         | 1-216-033-00   | METAL GLAZE 220<br>METAL GLAZE 220   | 5%<br>5%                   | 1/10W<br>1/10W                            |
| PS401  | 1-532-984-11   | LINK, IC (2A/90V)   |        | R015<br>R016<br>R017                 | 1-216-025-91   | METAL GLAZE 100<br>METAL GLAZE 100<br>METAL GLAZE 4.7K   | 5%<br>5%<br>5%             | 1/10W<br>1/10W<br>1/10W                   |
| Q001<br>Q002                                   |  | <transistor> TRANSISTOR 2SD601A-Q TRANSISTOR DTA144EKA-T146</transistor>                    |        | R018<br>R019<br>R020<br>R021         | 1-216-097-91<br>1-216-057-00                                 | METAL GLAZE 4.7K<br>METAL GLAZE 100K<br>METAL GLAZE 2.2K<br>METAL GLAZE 47K  | 5%<br>5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W<br>1/10W          |



| REF. NO.     | PART NO.                     | DESCRIPTION                    |                  | REMARK         | REF. NO.     | PART NO.                     | DESCRIPTION                |        | RE       | MARK                           |
|--------------|------------------------------|--------------------------------|------------------|----------------|--------------|------------------------------|----------------------------|--------|----------|--------------------------------|
| R023         | 1-216-065-00                 | METAL GLAZE 4                  | 4.7K 5%          | 1/10W          | R125         | 1-216-033-00                 | METAL GLAZE                | 220 59 | %        | 1/10W                          |
|              |                              |                                |                  |                | R127         | 1-216-033-00                 | <b>METAL GLAZE</b>         | 220 5  | %        | 1/10W                          |
| R024<br>R025 |                              | METAL GLAZE 1                  |                  | 1/10W<br>1/10W | R128         | 1-216-033-00                 | METAL GLAZE                | 220 5  | <b>%</b> | 1/10W                          |
| R026         | 1-216-033-00                 | METAL GLAZE 2                  | 220 5%           | 1/10W          | R131         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R027         |                              | METAL GLAZE                    |                  | 1/10W          | R132         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R030         | 1-216-073-00                 | METAL GLAZE                    | 10K 5%           | 1/10W          | R133<br>R147 |                              | METAL GLAZE<br>METAL GLAZE |        |          | 1/10W<br>1/10W                 |
| R033         |                              | METAL GLAZE 4                  |                  | 1/10W          | R148         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R034<br>R035 |                              | METAL GLAZE 4                  |                  | 1/10W<br>1/10W | R149         | 1_216_057_00                 | METAL GLAZE                | 22K 50 | %        | 1/10W                          |
| R036         |                              | METAL GLAZE                    |                  | 1/10W          | R154         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R037         | 1-216-033-00                 | METAL GLAZE 2                  | 220 5%           | 1/10W          | R155         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R038         | 1-216-089-91                 | METAL GLAZE 4                  | 47K 5%           | 1/10W          | R156<br>R157 |                              | METAL GLAZE<br>METAL GLAZE |        |          | 1/10W<br>1/10W                 |
| R039         |                              | METAL GLAZE                    | 47K 5%           | 1/10W          | 11101        |                              |                            |        |          |                                |
| R040         |                              | METAL GLAZE                    |                  | 1/10W<br>1/10W | R158<br>R159 |                              | METAL GLAZE<br>METAL GLAZE |        |          | 1/10W<br>1/10W                 |
| R041<br>R042 |                              | METAL GLAZE 1 METAL GLAZE 4    |                  | 1/10W          | R160         |                              | METAL GLAZE                |        |          | 1/10W<br>1/10W                 |
|              |                              |                                |                  |                | R161         | 1-216-017-91                 | METAL GLAZE                | 47 5   | %        | 1/10 <b>W</b>                  |
| R043<br>R045 |                              | METAL GLAZE 4                  |                  | 1/10W<br>1/10W | R163         | 1-216-033-00                 | METAL GLAZE                | 220 5  | %        | 1/10W                          |
| R046         |                              | METAL GLAZE                    | -                | 1/10W          | R164         | 1-216-033-00                 | METAL GLAZE                | 220 5  | %        | 1/10W                          |
| R047         | 1-216-057-00                 | METAL GLAZE 2                  | 2.2K 5%          | 1/10W          | R165         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R048         | 1-216-065-00                 | METAL GLAZE                    | 4.7K 5%          | 1/10W          | R171<br>R172 |                              | METAL GLAZE METAL GLAZE    |        |          | 1/10W<br>1/10W                 |
| R050         | 1-216-073-00                 | METAL GLAZE                    | 10K 5%           | 1/10W          | R173         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R053         |                              | METAL GLAZE                    |                  | 1/10W          | D204         | 1 240 227 11                 | CARRON                     | 0.47 5 | or ·     | 1/4W F                         |
| R054<br>R056 |                              | METAL GLAZE 2 METAL GLAZE 1    |                  | 1/10W<br>1/10W | R204<br>R206 | 1-249-377-11<br>1-216-022-00 | METAL GLAZE                |        |          | 1/4W F<br>1/10W                |
| R057         |                              | METAL GLAZE                    |                  | 1/10W          | R213         | 1-216-113-00                 | METAL GLAZE                | 470K 5 | %        | 1/10W                          |
| DOES         | 1 216 040 01                 | METAL GLAZE                    | 1K 5%            | 1/10W          | R214<br>R215 |                              | METAL GLAZE<br>METAL GLAZE |        |          | 1/10W<br>1/10W                 |
| R058<br>R059 |                              | METAL GLAZE                    |                  | 1/10W<br>1/10W | K213         | 1-210-113-00                 | METAL GLAZE                | 4/UK 3 | 710      | 1/10 <b>W</b>                  |
| R060         | 1-216-033-00                 | METAL GLAZE 2                  | 220 5%           | 1/10W          | R216         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R061<br>R063 |                              | METAL GLAZE                    |                  | 1/10W<br>1/10W | R217<br>R218 |                              | METAL GLAZE<br>METAL GLAZE |        |          | 1/10W<br>1/10W                 |
| ROOS         | 1-210-075-00                 | METAL GLAZE                    | 10K 5/0          | 1710**         | R219         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R064         |                              | METAL GLAZE                    |                  | 1/10W          | R220         | 1-216-113-00                 | METAL GLAZE                | 470K 5 | %        | 1/10W                          |
| R065<br>R066 |                              | METAL GLAZE                    |                  | 1/10W<br>1/10W | R221         | 1-216-022-00                 | METAL GLAZE                | 75 5   | %        | 1/10W                          |
| R067         |                              | METAL GLAZE                    |                  | 1/10W          | R222         | 1-216-022-00                 | METAL GLAZE                | 75 5   | %        | 1/10W                          |
| R068         | 1-216-033-00                 | METAL GLAZE 2                  | 220 5%           | 1/10W          | R223         |                              | METAL GLAZE                |        |          | 1/10W<br>1/10W                 |
| R070         | 1-216-033-00                 | METAL GLAZE                    | 220 5%           | 1/10W          | R224<br>R225 |                              | METAL GLAZE<br>METAL GLAZE |        |          | 1/10W<br>1/10W                 |
| R071         | 1-216-033-00                 | METAL GLAZE 2                  | 220 5%           | 1/10W          |              |                              |                            |        |          | 4 44 0777                      |
| R072<br>R073 |                              | METAL GLAZE 2<br>METAL GLAZE 2 |                  | 1/10W<br>1/10W | R227<br>R229 |                              | METAL GLAZE METAL GLAZE    |        |          | 1/10W<br>1/10W                 |
| R074         |                              | METAL GLAZE                    |                  | 1/10W          | R230         |                              | METAL GLAZE                |        |          | 1/10W                          |
| 2005         | 1 01 6 040 01                | ACTAL OF ACT                   | 177 501          | 1 /1 (33)      | R231         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R075<br>R076 |                              | METAL GLAZE                    |                  | 1/10W<br>1/10W | R235         | 1-210-041-00                 | METAL GLAZE                | 4/0 5  | %        | 1/10 <b>W</b>                  |
| R077         | 1-216-121-91                 | METAL GLAZE                    | 1M 5%            | 1/10W          | R236         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R078<br>R080 |                              | METAL GLAZE                    |                  | 1/10W<br>1/10W | R241<br>R245 |                              | METAL GLAZE<br>METAL GLAZE |        |          | 1/10W<br>1/10W                 |
| NUOU         | 1-210-073-00                 | METAL GLAZE                    | IUR 5 N          | 1/10**         | R255         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R081         |                              | METAL GLAZE                    |                  | 1/10W          | R258         | 1-216-089-91                 | METAL GLAZE                | 47K 5  | %        | 1/10W                          |
| R084<br>R085 |                              | METAL GLAZE :                  |                  | 1/10W<br>1/10W | R260         | 1-216-073-00                 | METAL GLAZE                | 10K 5  | %        | 1/10W                          |
| R086         | 1-216-033-00                 | METAL GLAZE                    | 220 5%           | 1/10W          | R261         | 1-216-065-00                 | <b>METAL GLAZE</b>         | 4.7K 5 | %        | 1/10W                          |
| R087         | 1-216-073-00                 | METAL GLAZE                    | 10K 5%           | 1/10W          | R262         |                              | METAL GLAZE METAL GLAZE    |        |          | 1/10W<br>1/10W                 |
| R088         | 1-216-065-00                 | METAL GLAZE                    | 4.7K 5%          | 1/10W          | R263<br>R264 |                              | METAL GLAZE                |        |          | 1/10 <b>W</b><br>1/10 <b>W</b> |
| R090         | 1-216-065-00                 | METAL GLAZE                    | 4.7K 5%          | 1/10W          |              |                              |                            |        |          |                                |
| R091<br>R092 |                              | METAL GLAZE                    |                  | 1/10W<br>1/10W | R265<br>R266 |                              | METAL GLAZE<br>METAL GLAZE |        |          | 1/10W<br>1/10W                 |
| R099         |                              | METAL GLAZE                    |                  | 1/10W          | R268         |                              | METAL GLAZE                |        |          | 1/10W                          |
|              | 1 01/ 000 00                 | METAL OF ACT                   | 220 50           | 1/10117        | R275         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R111<br>R112 |                              | METAL GLAZE                    |                  | 1/10W<br>1/10W | R276         | 1-210-033-00                 | METAL GLAZE                | 220 5  | %        | 1/10W                          |
| R113         | 1-216-033-00                 | METAL GLAZE                    | 220 5%           | 1/10W          | R277         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R115<br>R117 |                              | METAL GLAZE                    |                  | 1/10W<br>1/10W | R278<br>R279 |                              | METAL GLAZE<br>METAL GLAZE |        |          | 1/10W<br>1/10W                 |
| KII/         | 1-210-033-00                 | WIETAL GLAZE                   | 44U 370          | 1/10 W         | R279<br>R280 |                              | METAL GLAZE                |        |          | 1/10W<br>1/10W                 |
| R118         |                              | METAL GLAZE                    |                  | 1/10W          | R281         |                              | METAL GLAZE                |        |          | 1/10W                          |
| R119<br>R120 | 1-210-033-00<br>1-216-033-00 | METAL GLAZE                    | 220 5%<br>220 5% | 1/10W<br>1/10W | R282         | 1-216-041-00                 | METAL GLAZE                | 470 5  | %        | 1/10W                          |
| R121         | 1-216-033-00                 | METAL GLAZE                    | 220 5%           | 1/10W          | R283         | 1-216-041-00                 | <b>METAL GLAZE</b>         | 470 5  | %        | 1/10W                          |
| R122         | 1-216-033-00                 | METAL GLAZE                    | 220 5%           | 1/10W          | R284<br>R285 |                              | METAL GLAZE<br>METAL GLAZE |        |          | 1/10W<br>1/10W                 |
| R123         | 1-216-033-00                 | METAL GLAZE                    | 220 5%           | 1/10W          | R286         |                              | METAL GLAZE                |        |          | 1/10W<br>1/10W                 |
| R124         |                              | METAL GLAZE                    |                  | 1/10W          |              |                              |                            |        |          |                                |



| REF. NO.     | PART NO.       | DESCRIPTION                        | ,        | REMARK         | REF. NO.       | PART NO.                     | DESCRIPTION                |            | D              | REMARK           |
|--------------|----------------|------------------------------------|----------|----------------|----------------|------------------------------|----------------------------|------------|----------------|------------------|
|              |                |                                    | •        |                |                |                              |                            | 4 777      |                |                  |
| R287<br>R288 |                | METAL GLAZE 10<br>METAL GLAZE 10   |          | 1/10W<br>1/10W | R372           | 1-210-005-00                 | METAL GLAZE                | 4./K       | 5%             | 1/10W            |
| R289         |                | METAL GLAZE 10                     |          | 1/10W          | R373           |                              | METAL GLAZE                |            | 5%<br>5%       | 1/10W<br>1/10W   |
| R290<br>R291 |                | METAL GLAZE 10<br>METAL GLAZE 10   |          | 1/10W<br>1/10W | R374<br>R375   |                              | METAL GLAZE<br>METAL GLAZE |            | 5%             | 1/10W            |
|              |                |                                    |          |                | R376           |                              | METAL GLAZE                |            | 5%             | 1/10 <b>W</b>    |
| R294<br>R295 |                | METAL GLAZE 56<br>METAL GLAZE 10   |          | 1/10W<br>1/10W | R377           | 1-216-073-00                 | METAL GLAZE                | IOK        | 5%             | 1/10W            |
| R296         | 1-216-025-91   | METAL GLAZE 10                     | 0 5%     | 1/10W          | R378           |                              | METAL GLAZE                |            | 5%             | 1/10W            |
| R297<br>R299 |                | METAL GLAZE 68<br>METAL GLAZE 47   |          | 1/10W<br>1/10W | R379<br>R380   |                              | METAL GLAZE<br>METAL GLAZE |            | 5%<br>5%       | 1/10W<br>1/10W   |
| K499         | 1-210-041-00   | METAL OLALE 47                     | 0 3%     |                | R381           | 1-216-097-91                 | METAL GLAZE                |            | 5%             | 1/10W            |
| R301<br>R302 |                | METAL GLAZE 47                     |          | 1/10W<br>1/10W | R384           | 1-249-377-11                 | CARBON                     | 0.47       | 5%             | 1/4W F           |
| R302<br>R303 |                | METAL GLAZE 1K<br>METAL GLAZE 1K   |          | 1/10W          | R401           | 1-249-377-11                 | CARBON                     | 0.47       | 5%             | 1/4W F           |
| R304         |                | METAL GLAZE 1K                     |          | 1/10W          | R402           | 1-249-377-11                 |                            | 0.47       | 5%             | 1/4W F           |
| R305         | 1-216-033-00   | METAL GLAZE 22                     | 0 5%     | 1/10W          | R403<br>R404   |                              | METAL GLAZE METAL GLAZE    |            | 5%<br>5%       | 1/10W<br>1/10W   |
| R306         |                | METAL GLAZE 47                     |          | 1/10W          | R406           |                              | METAL GLAZE                |            | 5%             | 1/10W            |
| R307<br>R308 |                | METAL GLAZE 1K<br>METAL GLAZE 47   |          | 1/10W<br>1/10W | R407           | 1-216-025-01                 | METAL GLAZE                | 100        | 5%             | 1/10W            |
| R309         |                | METAL GLAZE 47                     |          | 1/10W          | R408           |                              | METAL GLAZE                |            | 5%             | 1/10W            |
| R310         | 1-216-017-91   | METAL GLAZE 47                     | 5%       | 1/10W          | R412           |                              | METAL GLAZE                |            | 5%             | 1/10W            |
| R314         | 1-216-033-00   | METAL GLAZE 22                     | 0 5%     | 1/10W          | R413<br>R414   |                              | METAL GLAZE<br>METAL GLAZE |            | 5%<br>5%       | 1/10W<br>1/10W   |
| R315         | 1-216-033-00   | METAL GLAZE 22                     | 0 5%     | 1/10W          |                |                              |                            |            |                |                  |
| R319         |                | METAL GLAZE 22<br>METAL GLAZE 22   |          | 1/10W<br>1/10W | R415<br>R416   |                              | METAL GLAZE METAL GLAZE    |            | 5%<br>5%       | 1/10W<br>1/10W   |
| R320<br>R322 |                | METAL GLAZE 22<br>METAL GLAZE 15   |          | 1/10W          | R418           |                              | METAL GLAZE                |            | 5%             | 1/10W            |
| D000         | 1 01 6 00 5 01 | ACTUAL OF 125 10                   |          | 1/1/0337       | R423           |                              | METAL GLAZE                |            | 5%             | 1/10W            |
| R323<br>R324 |                | METAL GLAZE 10<br>METAL GLAZE 10   |          | 1/10W<br>1/10W | R424           | 1-210-089-91                 | METAL GLAZE                | 4/K.       | 5%             | 1/10W            |
| R325         | 1-216-025-91   | METAL GLAZE 10                     | 0 5%     | 1/10W          | R425           |                              | METAL GLAZE                |            | 5%             | 1/10W            |
| R326<br>R327 |                | METAL GLAZE 1.:<br>METAL GLAZE 1K  |          | 1/10W<br>1/10W | R427<br>R428   |                              | METAL GLAZE<br>METAL GLAZE |            | 5%<br>5%       | 1/10W<br>1/10W   |
| K321         | 1-210-049-91   | WIETAL GLAZE IN                    | 370      | 1/10**         | R429           |                              | METAL GLAZE                |            | 5%             | 1/10W            |
| R328         |                | METAL GLAZE 18                     |          | 1/10W          | R430           | 1-216-051-00                 | METAL GLAZE                | 1.2K       | 5%             | 1/10W            |
| R330<br>R331 |                | METAL GLAZE 10<br>METAL GLAZE 10   |          | 1/10W<br>1/10W | R432           | 1-216-081-00                 | METAL GLAZE                | 22K        | 5%             | 1/10W            |
| R332         | 1-216-035-00   | <b>METAL GLAZE 27</b>              | 0 5%     | 1/10W          | R433           | 1-216-011-00                 | METAL GLAZE                | 27         | 5%             | 1/10W            |
| R333         | 1-208-810-11   | METAL GLAZE 15                     | 5K 0.50% | 1/10W          | R434<br>R435   |                              | METAL GLAZE<br>METAL GLAZE |            | 5%<br>5%       | 1/10W<br>1/10W   |
| R334         | 1-216-043-91   | METAL GLAZE 56                     | 50 5%    | 1/10W          | R436           |                              | METAL GLAZE                |            | 5%             | 1/10W            |
| R335         |                | METAL GLAZE 22                     |          | 1/10W<br>1/10W | R437           | 1-249-418-11                 | CADRON                     | 1.2K       | 5%             | 1/4W F           |
| R337<br>R338 |                | METAL GLAZE 22<br>METAL GLAZE 22   |          | 1/10W          | R438           | 1-249-418-11                 |                            | 1.2K       | 5%             | 1/4W F           |
| R339         |                | METAL GLAZE 22                     |          | 1/10W          | R439           | 1-249-389-11                 |                            | 4.7        | 5%             | 1/4W F<br>1/4W F |
| R340         | 1-216-025-91   | METAL GLAZE 10                     | 00 5%    | 1/10W          | R440<br>R441   | 1-249-389-11<br>1-216-073-00 | METAL GLAZE                | 4.7<br>10K | 5%<br>5%       | 1/4W F<br>1/10W  |
| R342         | 1-216-025-91   | METAL GLAZE 10                     | 0 5%     | 1/10W          |                |                              |                            |            |                |                  |
| R343<br>R344 |                | METAL GLAZE 10<br>METAL GLAZE 5.   |          | 1/10W<br>1/10W | R442<br>R443   |                              | METAL GLAZE CONDUCTOR, O   |            | 5%             | 1/10 <b>W</b>    |
| R345         | 1-216-109-00   | METAL GLAZE 33                     |          | 1/10W          | R444           | 1-216-295-91                 | CONDUCTOR, C               | CHIP       |                |                  |
| D246         |                |                                    |          | 1/10W          | R1101<br>R1102 |                              | METAL GLAZE METAL GLAZE    |            | 5%<br>5%       | 1/10W<br>1/10W   |
| R346<br>R347 |                | METAL GLAZE 1 METAL GLAZE 11.      |          | 1/10W          | KIIUZ          | 1-210-063-00                 | METAL GLAZE                | 21K        | 370            | 1/10 **          |
| R348         |                | METAL GLAZE 3.                     |          | 1/10W          | R1103          |                              | METAL GLAZE                |            | 5%             | 1/10W            |
| R349<br>R350 |                | METAL GLAZE 11 METAL GLAZE 11      |          | 1/10W<br>1/10W | R1104<br>R1105 |                              | METAL GLAZE METAL GLAZE    |            | 5%<br>5%       | 1/10W<br>1/10W   |
|              |                |                                    |          |                | R1106          | 1-216-083-00                 | METAL GLAZE                | 27K        | 5%             | 1/10W            |
| R351<br>R352 |                | METAL GLAZE 3.3<br>METAL GLAZE 2.3 |          | 1/10W<br>1/10W | R1107          | 1-216-065-00                 | METAL GLAZE                | 4.7K       | 5%             | 1/10W            |
| R353         |                | METAL GLAZE 2.                     |          | 1/10W          | R1108          |                              | METAL OXIDE                |            | 5%             | 2W F             |
| R354         |                | METAL GLAZE 10                     |          | 1/10W<br>1/10W | R1501<br>R1502 |                              | METAL OXIDE METAL CHIP     | 2.7<br>10K | 5%<br>0.50%    | 1W F<br>1/10W    |
| R355         | 1-210-089-91   | METAL GLAZE 47                     | K 5%     | 1/10W          | R1502          |                              | METAL CHIP                 | 10K        | 0.50%          | 1/10W            |
| R356         |                | METAL GLAZE 10                     |          | 1/10W          | R1506          |                              | METAL OXIDE                | 220        | 5%             | 2W F             |
| R357<br>R360 |                | METAL GLAZE 11<br>METAL GLAZE 4.   |          | 1/10W<br>1/10W | R1507          | 1-216-081-00                 | METAL GLAZE                | 22K        | 5%             | 1/10W            |
| R361         | 1-216-041-00   | METAL GLAZE 47                     | 70 5%    | 1/10W          | R1508          | 1-249-383-11                 | CARBON                     | 1.5        | 5%             | 1/4W F           |
| R362         | 1-216-049-91   | METAL GLAZE 11                     | K 5%     | 1/10W          | R1509<br>R1510 |                              | METAL CHIP<br>METAL CHIP   | 10K<br>10K | 0.50%<br>0.50% | 1/10W<br>1/10W   |
| R363         | 1-216-077-00   | METAL GLAZE 15                     | 5K 5%    | 1/10W          | R1510          |                              | METAL CHIP                 |            | 5%             | 1/10W            |
| R364         | 1-208-783-11   | METAL GLAZE 1.                     | 1K 0.50% | 1/10W          | i              |                              |                            |            | Eat            |                  |
| R365<br>R366 |                | METAL GLAZE 22<br>METAL GLAZE 47   |          | 1/10W<br>1/10W | R1518<br>R1520 |                              | METAL OXIDE<br>METAL GLAZE |            | 5%<br>5%       | 1W F<br>1/10W    |
| R367         |                | METAL GLAZE 27                     |          | 1/10W          | R1522          | 1-216-089-91                 | METAL GLAZE                | 47K        | 5%             | 1/10W            |
| R368         | 1_216_0/0_01   | METAL GLAZE 11                     | K 5%     | 1/10W          | R1523<br>R1524 |                              | METAL GLAZE<br>METAL GLAZE |            | 5%<br>5%       | 1/10W<br>1/10W   |
| R369         |                | METAL GLAZE 10                     |          | 1/10W          | į              |                              |                            |            |                |                  |
| R370         |                | METAL GLAZE 27                     |          | 1/10W          | R1525          |                              | METAL CHIP                 | 30K<br>30K | 0.50%          | 1/10W            |
| R371         | 1-210-0//-00   | METAL GLAZE 15                     | 5K 5%    | 1/10W          | R1526          | 1-210-080-11                 | METAL CHIP                 | JUK        | 0.50%          | 1/10W            |

The componants identified by shading and mark ∆ are critical for safety.

Replace only with part number specified.

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S. 100 (100 ) S. 100 (100 ) S. 100 (100 ) S. 100 (100 ) S. 100 (100 ) S. 100 (100 ) S. 100 (100 ) S. 100 (100 ) Les composants identifies par une trame et une marque ∆
sont critiques pour la securite.
Ne les remplacer que par une 
piece portant le numero specifie



|   |  |   | · Apple ·                |                               | FLARE                                     | DEE NO                                       | DADTNO   | DESCRIPTION  |  |  | DEL ( A DE                             |
|---|--|---|--------------------------|-------------------------------|---|--|--|--|--|--|--|
| REF. NO.                                  | PART NO.   | DESCRIPTION   |                          |                               | EMARK                                     | REF. NO.                                     | PART NO.   | DESCRIPTION  |  | -                                      | REMARK                                 |
| R1527<br>R1528<br>R1529                   | 1-216-089-91   | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 47K                      | 5%<br>5%<br>5%                | 1/10W<br>1/10W<br>1/10W                   | C108<br>C109                                 | 1-104-664-11<br>1-126-935-11   |  |  | 20%<br>20%                             | 25V<br>16V                             |
| R2106<br>R2109<br>R2110<br>R2111<br>R2112 | 1-216-025-91<br>1-216-041-00<br>1-216-073-00<br>1-216-089-91 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 100<br>470<br>10K<br>47K | 5%<br>5%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | C110<br>C111<br>C119<br>C120<br>C121         | 1-163-231-11<br>1-163-227-11<br>1-163-227-11                                 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP | 15PF<br>10PF<br>10PF                   | 5%<br>5%<br>0.5PF<br>0.5PF<br>0.5PF    | 50V<br>50V<br>50V<br>50V<br>50V        |
| R2201<br>R2202<br>R2203<br>R2204<br>R2205 | 1-216-041-00<br>1-216-041-00<br>1-216-025-91<br>1-216-045-00 | METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE<br>METAL GLAZE   | 470<br>470<br>100<br>680 | 5%<br>5%<br>5%<br>5%<br>5%    | 1/10W<br>1/10W<br>1/10W<br>1/10W<br>1/10W | C124<br>C201<br>C202<br>C203<br>C204         | 1-126-960-11<br>1-126-935-11<br>1-126-935-11                                 | ELECT  | 1MF<br>470MF<br>470MF                  | 20%<br>20%<br>20%<br>10%               | 50V<br>50V<br>16V<br>16V<br>25V        |
| R2208<br>R2209                            |  | METAL GLAZE<br>METAL GLAZE  |                          | 5%<br>5%                      | 1/10W<br>1/10W                            | C205<br>C206<br>C207<br>C208<br>C209         | 1-164-004-11   | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP                                 | 0.1MF<br>0.1MF                         | 20%<br>10%<br>10%<br>10%<br>20%        | 50V<br>25V<br>25V<br>25V<br>50V        |
|   |  | <thermistor:< td=""><td>&gt;</td><td></td><td></td><td>C210</td><td>1-126-964-11</td><td>EI ECT</td><td>10<b>M</b>F</td><td>20%</td><td>50V</td></thermistor:<> | >                        |                               |   | C210   | 1-126-964-11   | EI ECT   | 10 <b>M</b> F                          | 20%                                    | 50V                                    |
| TH1501                                    | 1-800-193-00   | THERMISTOR <tuner></tuner>  |                          |                               |   | C211<br>C212<br>C213<br>C214                 | 1-126-964-11<br>1-126-964-11<br>1-126-964-11<br>1-126-964-11                 | ELECT<br>ELECT   | 10MF<br>10MF<br>10MF<br>10MF           | 20%<br>20%<br>20%<br>20%<br>20%        | 50V<br>50V<br>50V<br>50V               |
| TU1101/A                                  | \ 8-598-340-00<br>\ 8-598-339-00                             | TUNER BTF-WA  | (404<br>402              | 11 1200<br>1 1 120<br>2 10 1  | , , , , , , , , , , , , , , , , , , ,     | C215<br>C216<br>C218<br>C219                 | 1-126-964-11<br>1-126-964-11<br>1-163-031-11<br>1-126-964-11<br>1-126-964-11 | ELECT<br>CERAMIC CHIP<br>ELECT   | 10MF<br>10MF<br>0.01MF<br>10MF<br>10MF | 20%<br>20%<br>20%<br>20%               | 50V<br>50V<br>50V<br>50V               |
| X001<br>X002<br>X301<br>X304              | 1-578-774-11<br>1-567-505-11                                 | <crystal> VIBRATOR, CEI VIBRATOR, CR OSCILLATOR, COSCILLATOR, COSCILLATOR, COSCILALTOR, COSCILALTOR, COSCILALTOR</crystal>                                      | YSTAL<br>CRYSTAL         |                               |   | C220<br>C221<br>C224<br>C226<br>C227<br>C229 | 1-164-004-11<br>1-104-664-11<br>1-126-964-11                                 | CERAMIC CHIP<br>ELECT<br>ELECT<br>CERAMIC CHIP                               | 0.1MF<br>47MF<br>10MF                  | 10%<br>20%<br>20%<br>20%<br>10%<br>20% | 50V<br>25V<br>25V<br>50V<br>25V<br>50V |
| ******                                    | *****  | *****   | *****                    | ******                        | *****                                     | C230   | 1-126-964-11   |  | 10 <b>MF</b>                           | 20%                                    | 50V                                    |
|   |  | A BOARD, CO   | MPLETE (e                |                               |   | C231<br>C232<br>C302<br>C303                 | 1-126-933-11<br>1-164-004-11<br>1-126-959-11                                 | ELECT<br>CERAMIC CHIP  | 100MF<br>0.1MF<br>0.47MF               | 20%<br>10%<br>20%                      | 16V<br>25V<br>50V<br>50V               |
| goo.                                      |  | <pre><capacitor></capacitor></pre>  |                          | )                             | 5037                                      | C304<br>C305<br>C308<br>C309                 | 1-164-004-11<br>1-126-933-11   | CERAMIC CHIP<br>CERAMIC CHIP<br>ELECT  | 0.1MF<br>100MF                         | 20%<br>5%<br>10%<br>20%<br>5%          | 50V<br>50V<br>25V<br>16V               |
| C001<br>C004<br>C005<br>C006<br>C017      | 1-126-933-11<br>1-126-964-11<br>1-101-004-00                 | ELECT   | 100MF<br>10MF<br>0.01MF  | 20%<br>20%<br>10%             | 50V<br>16V<br>50V<br>50V<br>25V           | C310<br>C311<br>C312<br>C313<br>C314         | 1-115-419-11   |  | 3300PF                                 | 5%<br>5%<br>20%<br>5%<br>5%            | 50V<br>25V<br>50V<br>50V<br>50V        |
| C018<br>C019<br>C021<br>C024<br>C025      | 1-126-960-11<br>1-163-243-11<br>1-164-004-11                 | CERAMIC CHIP<br>ELECT<br>CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP   | 1MF<br>47PF<br>0.1MF     | 5%<br>20%<br>5%<br>10%        | 50V<br>50V<br>50V<br>25V<br>50V           | C315<br>C316<br>C317<br>C318                 | 1-137-399-11<br>1-164-232-11<br>1-164-232-11<br>1-164-232-11                 | FILM CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP                                  | 0.01MF<br>0.01MF                       | 5%<br>10%<br>10%<br>10%                | 50V<br>50V<br>50V<br>50V               |
| C026<br>C027                              | 1-107-693-11<br>1-126-935-11                                 |   | 10MF<br>470MF            | 20%<br>20%                    | 16V<br>16V                                | C319<br>C320                                 |  | CERAMIC CHIP<br>CERAMIC CHIP   |  | 10%<br>10%                             | 25V<br>25V                             |
| C028<br>C032<br>C033                      | 1-107-693-11<br>1-164-004-11<br>1-163-259-91                 | ELECT<br>CERAMIC CHIP<br>CERAMIC CHIP   | 10MF<br>0.1MF<br>220PF   | 20%<br>10%<br>5%              | 16V<br>25V<br>50V                         | C321<br>C322<br>C323<br>C324                 |  | MYLAR<br>FILM<br>CERAMIC CHIP  |  |  | 50V<br>50V<br>100V<br>50V              |
| C034<br>C035<br>C036<br>C037<br>C038      | 1-104-664-11<br>1-163-231-11                                 | CERAMIC CHIP<br>CERAMIC CHIP  | 47MF<br>15PF             | 10%<br>20%<br>5%<br>5%<br>20% | 25V<br>25V<br>50V<br>50V<br>50V           | C325<br>C326<br>C327<br>C329                 |  |  |  | 20%<br>20%<br>5%<br>10%                | 50V<br>50V<br>50V<br>50V               |
| C045                                      | 1-164-182-11   | CERAMIC CHIP  |                          | 10%                           | 50V                                       | C330<br>C331                                 | 1-163-263-11<br>1-126-959-11   | CERAMIC CHIP<br>ELECT  | 330PF<br>0.47MF                        | 5%<br>20%                              | 50V<br>50V                             |
| C046<br>C047<br>C048<br>C054              | 1-163-010-11<br>1-164-005-11                                 | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP  | 0.0012MF<br>0.47MF       | 10%                           | 50V<br>50V<br>25V<br>50V                  | C332<br>C333<br>C334<br>C335                 | 1-164-232-11   | CERAMIC CHIP<br>CERAMIC CHIP<br>CERAMIC CHIP<br>ELECT                        | 0.01MF                                 | 10%<br>10%<br>5%<br>20%                | 50V<br>50V<br>50V<br>16V               |
| C057<br>C092                              | 1-163-259-91   | CERAMIC CHIP  | 220PF                    | 5%<br>5%                      | 50V<br>50V                                | C337   | 1-126-960-11   | ELECT  | 1MF                                    | 20%                                    | 50V                                    |
| C107                                      | 1-163-031-11   | CERAMIC CHIP  | 0.01MF                   |                               | 50V                                       | C338   | 1-126-961-11   | ELECT  | 2.2MF                                  | 20%                                    | 50V                                    |



| REF. NO.       | PART NO.                     | DESCRIPTION                  |                 |            | REMARK      | REF. NO.       | PART NO.                     | DESCRIPTION                  |                  |            | REMARK       |
|----------------|------------------------------|------------------------------|-----------------|------------|-------------|----------------|------------------------------|------------------------------|------------------|------------|--------------|
| C339           | 1-126-959-11                 |                              | 0.47MF          | 20%        | 50V         | C1206          |                              | CERAMIC CHIP                 |                  | 20%        | 25V<br>50V   |
| C342<br>C344   | 1-137-399-11                 | FILM<br>CERAMIC CHIP         | 0.1MF           | 5%<br>5%   | 50V<br>50V  | C1207<br>C1208 | 1-126-964-11<br>1-126-933-11 |                              | 10MF<br>100MF    | 20%        | 16V          |
| C349           |                              | CERAMIC CHIP                 |                 | 5%         | 50V         | C1209          | 1-137-368-11                 | FILM                         | 0.0047MF         | 5%         | 50V          |
| G051           | 1 1/4 004 11                 | CED ANG CHID                 | 0.13.05         | 100        | 0637        | C1210          | 1-130-489-00                 | FILM                         | 0.033MF          | 5%         | 50V          |
| C351<br>C401   | 1-164-004-11                 | CERAMIC CHIP<br>ELECT        | 10MF            | 10%<br>20% | 25V<br>50V  | C1211          | 1-126-957-11                 | ELECT                        | 0.22MF           | 20%        | 50V          |
| C402           | 1-126-964-11                 | ELECT                        | 10MF            | 20%        | 50V         | C1212          | 1-126-957-11                 | ELECT                        | 0.22MF           | 20%        | 50V          |
| C403           | 1-137-367-11                 |                              | 0.0033MF        |            | 50V         | C1216<br>C1218 | 1-126-959-11                 | ELECT<br>CERAMIC CHIP        | 0.47MF           | 20%        | 50V<br>25V   |
| C404           | 1-137-367-11                 | FILM                         | 0.0033MF        | 3%         | 50V         | C1218<br>C1219 | 1-103-038-91                 |                              | 0.0047MF         | 5%         | 50V          |
| C405           | 1-137-399-11                 |                              | 0.1MF           | 5%         | 50V         |                |                              |                              |                  |            |              |
| C406<br>C407   | 1-137-399-11<br>1-126-960-11 |                              | 0.1MF<br>1MF    | 5%<br>20%  | 50V<br>50V  | C1220<br>C1221 | 1-163-038-91<br>1-104-664-11 | CERAMIC CHIP                 | 0.1MF<br>47MF    | 20%        | 25V<br>25V   |
| C407<br>C408   | 1-120-960-11                 |                              | 0.0033MF        |            | 50V         | C1501          |                              | CERAMIC CHIP                 |                  | 10%        | 50V          |
| C409           | 1-137-367-11                 |                              | 0.0033MF        | 5%         | 50V         | C1502          | 1-107-504-11                 |                              | 10PF             | 0.5PF      | 500V         |
| C410           | 1-137-399-11                 | FII.M                        | 0.1MF           | 5%         | 50V         | C1503          | 1-136-177-00                 | FILM                         | 1MF              | 5%         | 50V          |
| C411           | 1-137-399-11                 |                              | 0.1MF           | 5%         | 50V         | C1506          | 1-126-969-11                 |                              | 220MF            | 20%        | 50V          |
| C412           | 1-126-933-11                 |                              | 100MF           | 20%        | 16V         | C1507<br>C1508 | 1-163-243-11<br>1-137-378-11 | CERAMIC CHIP                 | 47PF<br>0.22MF   | 5%<br>5%   | 50V<br>50V   |
| C413<br>C414   | 1-128-551-11                 | CERAMIC CHIP                 | 22MF<br>0.1MF   | 20%        | 25V<br>25V  | C1506          | 1-163-251-11                 | CERAMIC CHIP                 |                  | 5%         | 50V          |
|                |                              |                              |                 |            |             | C1510          | 1-126-942-61                 |                              | 1000MF           | 20%        | 25V          |
| C415           | 1-126-964-11<br>1-126-964-11 |                              | 10MF<br>10MF    | 20%<br>20% | 50V<br>50V  | C1511          | 1-126-942-61                 | EI ECT                       | 1000MF           | 20%        | 25V          |
| C416<br>C417   | 1-126-964-11                 |                              | 10MF            | 20%        | 50V         | C1513          |                              | CERAMIC CHIP                 |                  | 2010       | 50V          |
| C418           | 1-104-664-11                 | ELECT                        | 47MF            | 20%        | 25V         | C1514          |                              | CERAMIC CHIP                 |                  |            | 50V          |
| C421           | 1-126-963-11                 | ELECT                        | 4.7MF           | 20%        | 50V         | C1517<br>C1518 | 1-126-964-11<br>1-126-933-11 |                              | 10MF<br>100MF    | 20%<br>20% | 50V<br>16V   |
| C422           | 1-104-664-11                 | ELECT                        | 47MF            | 20%        | 25V         | CIJIO          | 1-120-955-11                 | ELLCI                        | 1001411          |            |              |
| C424           | 1-126-961-11                 |                              | 2.2MF           | 20%        | 50V         | C1519          | 1-126-933-11                 |                              | 100MF            | 20%        | 16V          |
| C425<br>C426   | 1-126-935-11<br>1-126-964-11 |                              | 470MF<br>10MF   | 20%<br>20% | 16V<br>50V  | C1520<br>C1521 | 1-126-964-11                 | CERAMIC CHIP                 | 10MF<br>0.0022MF | 20%<br>10% | 50V<br>50V   |
| C427           | 1-126-933-11                 |                              | 100MF           | 20%        | 16V         | C1522          | 1-164-004-11                 | CERAMIC CHIP                 | 0.1MF            | 10%        | 25V          |
| C400           | 1 126 060 11                 | EI ECT                       | 22014E          | 20%        | 50V         | C1523          | 1-163-005-11                 | CERAMIC CHIP                 | 470PF            | 10%        | 50V          |
| C428<br>C429   | 1-126-969-11<br>1-126-967-11 |                              | 220MF<br>47MF   | 20%        | 50V         | C1524          | 1-137-150-11                 | MYLAR                        | 0.01MF           | 10%        | 100V         |
| C430           | 1-126-964-11                 | ELECT                        | 10MF            | 20%        | 50V         | C1601          | 1-126-933-11                 |                              | 100MF            | 20%        | 16V          |
| C431<br>C432   | 1-126-969-11<br>1-136-173-00 |                              | 220MF<br>0.47MF | 20%<br>5%  | 50V<br>50V  | C1602<br>C1603 | 1-126-933-11<br>1-126-916-11 |                              | 100MF<br>1000MF  | 20%<br>20% | 16V<br>6.3V  |
| C432           | 1-130-173-00                 | LIUM                         | U.47NIF         | 370        | 30 ₹        | C1604          | 1-126-934-11                 |                              | 220MF            | 20%        | 16V          |
| C433           | 1-137-399-11                 |                              | 0.1MF           | 5%         | 50V         | 61405          | 1 170 001 11                 | CED ANG CIMB                 | 0.013.65         |            | £037         |
| C434<br>C435   | 1-128-550-11<br>1-137-399-11 |                              | 2200MF<br>0.1MF | 20%<br>5%  | 50V<br>50V  | C1605<br>C1606 |                              | CERAMIC CHIP<br>CERAMIC CHIP |                  |            | 50V<br>50V   |
| C436           | 1-128-548-11                 |                              | 4700MF          | 20%        | 25V         | C1607          | 1-163-031-11                 | CERAMIC CHIP                 | 0.01MF           |            | 50V          |
| C437           | 1-128-548-11                 | ELECT                        | 4700MF          | 20%        | 25 <b>V</b> | C1608          |                              | CERAMIC CHIP                 |                  |            | 50V<br>50V   |
| C438           | 1-126-964-11                 | ELECT                        | 10MF            | 20%        | 50V         | C1609          | 1-105-051-11                 | CERAMIC CHIP                 | O.OTWIP          |            | JU V         |
| C439           | 1-126-964-11                 | ELECT                        | 10MF            | 20%        | 50V         | C1610          | 1-126-933-11                 |                              | 100MF            | 20%        | 16V          |
| C440<br>C441   | 1-126-964-11<br>1-126-964-11 |                              | 10MF<br>10MF    | 20%<br>20% | 50V<br>50V  | C1611<br>C2105 | 1-163-031-11<br>1-126-964-11 | CERAMIC CHIP                 | 0.01MF<br>10MF   | 20%        | 50V<br>50V   |
| C1101          |                              | CERAMIC CHIP                 |                 | 20 /0      | 50 <b>V</b> | C2106          | 1-163-038-91                 | CERAMIC CHIP                 |                  |            | 25V          |
| G1100          |                              |                              |                 |            | £037        | C2107          | 1-126-964-11                 | ELECT                        | 10MF             | 20%        | 50V          |
| C1102<br>C1103 | 1-103-031-11                 | CERAMIC CHIP<br>ELECT        | 100MF           | 20%        | 50V<br>16V  |                |                              |                              |                  |            |              |
| C1104          | 1-164-161-11                 | CERAMIC CHIP                 | 0.0022MF        | 10%        | 50V         |                |                              | <connector></connector>      | •                |            |              |
| C1105<br>C1106 | 1-126-960-11<br>1-126-933-11 |                              | 1MF<br>100MF    | 20%<br>20% | 50V<br>16V  | CN001          | *1-564-507-11                | PLUG. CONNEC                 | TOR 4P           |            |              |
| C1100          | 1-120-955-11                 | LUCI                         | 1001411         | 2070       |             | CN002          | *1-564-511-11                | PLUG, CONNEC                 | TOR 8P           |            |              |
| C1107          | 1-104-664-11                 |                              | 47MF            | 20%        | 25V         | CN003<br>CN004 |                              | CONNECTOR, E                 |                  |            |              |
| C1108<br>C1109 | 1-126-964-11<br>1-126-933-11 |                              | 10MF<br>100MF   | 20%<br>20% | 50V<br>16V  | CN301          |                              | CONNECTOR, E                 |                  |            |              |
| C1110          | 1-164-161-11                 | CERAMIC CHIP                 | 0.0022MF        | 10%        | 50V         | l              |                              | ŕ                            |                  |            |              |
| C1111          | 1-126-960-11                 | ELECT                        | 1MF             | 20%        | 50V         | CN302<br>CN303 |                              | PLUG, CONNEC                 |                  |            |              |
| C1112          | 1-163-031-11                 | CERAMIC CHIP                 | 0.01MF          |            | 50V         | CN304          |                              | CONNECTOR, E                 |                  | BOAR       | D 8P         |
| C1113          | 1-126-964-11                 |                              | 10MF            | 20%        | 50V         | CN305          |                              | CONNECTOR, E                 |                  | BOAR       | D 20P        |
| C1114<br>C1115 |                              | CERAMIC CHIP<br>CERAMIC CHIP |                 |            | 50V<br>50V  | CN401          | *1-304-307-11                | PLUG, CONNEC                 | TOR 4P           |            |              |
| C1116          |                              | CERAMIC CHIP                 |                 |            | 50V         |                |                              | PLUG, CONNEC                 |                  |            |              |
| C1117          | 1 162 021 11                 | CERAMIC CHIP                 | 0.01346         |            | 50V         |                |                              | PLUG, CONNEC                 |                  |            |              |
| C1117<br>C1118 |                              | CERAMIC CHIP                 |                 |            | 50V         |                |                              | CONNECTOR, E                 |                  | BOARI      | D10 <b>P</b> |
| C1119          | 1-126-968-11                 | ELECT                        | 100MF           | 20%        | 50V         |                |                              | CONNECTOR, E                 |                  |            |              |
| C1120<br>C1122 | 1-126-933-11<br>1-104-664-11 |                              | 100MF<br>47MF   | 20%<br>20% | 16V<br>25V  |                |                              |                              |                  |            |              |
| C1122          |                              |                              |                 |            |             |                |                              | <diode></diode>              |                  |            |              |
| C1201          |                              | CERAMIC CHIP                 |                 | 10%        | 50V<br>50V  | D001           | 9_710_001_22                 | DIODE 1SS133T                | -77              |            |              |
| C1202<br>C1203 | 1-126-964-11<br>1-126-964-11 |                              | 10MF<br>10MF    | 20%<br>20% | 50V         | D001           |                              | DIODE 188133T                |                  |            |              |
| C1204          | 1-137-367-11                 | FILM                         | 0.0033MF        | 5%         | 50V         | D003           | 8-719-991-33                 | DIODE 1SS133T                | <i>-77</i>       |            |              |
| C1205          | 1-126-959-11                 | ELECT                        | 0.47MF          | 20%        | 50V         | D004           | 8-719 <b>-</b> 991-33        | DIODE 1SS133T                | -11              |            |              |

The componants identified by shading and mark  $\triangle$  are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque \( \Lambda \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



| Summers        | Y2409340000000000 | DESCRIPTION                             |        |                  |                              |   |        |
|----------------|-------------------|---|--------|------------------|------------------------------|---|--------|
| REF. NO.       | PART NO.          | DESCRIPTION                             | REMARK | REF. NO.         | PART NO.                     | DESCRIPTION                                     | REMARK |
|                |                   | ***************                         |        |                  |                              |   |        |
| D007           | 8-719-109-89      | DIODE RD5.6ESB2                         |        | IC201            |                              | IC MM1313AD                                     |        |
|                |                   |   |        | IC202            |                              | IC uPC4558G2                                    |        |
| D008           |                   | DIODE 1SS133T-77                        |        | COUL             | 0 750 260 20                 | IC CXA2025AS                                    |        |
| D010           |                   | DIODE RD5.6ESB2                         |        | IC401<br>IC402   |                              | IC BH3856FS-E2<br>IC uPC4558G2                  |        |
| D201<br>D202   |                   | DIODE RD5.6ESB2<br>DIODE RD10ESB2       |        | 10402            | 0-739-100-90                 | IC urc455802                                    |        |
| D202<br>D203   |                   | DIODE RD10ESB2                          |        | IC403            | 8-759-089-13                 | IC TDA7262                                      |        |
| D203           | 0-715-105-05      | DIODE RDS.0ESD2                         |        | ICI 101          | 8-759-231-53                 |   |        |
| D204           | 8-719-109-89      | DIODE RD5.6ESB2                         |        | IC1201           |                              | IC BA14741F                                     |        |
| D205           |                   | DIODE RD10ESB2                          |        | IC1202           | 8-759-988-36                 | IC BA14741F                                     |        |
| D206           | 8-719-977-28      | DIODE DTZ10B                            |        | IC1203           | 8-759-208-09                 | IC TC4052BFHB                                   |        |
| D207           |                   | DIODE DTZ10B                            |        |                  |                              |   |        |
| D208           | 8-719-977-28      | DIODE DTZ10B                            |        | IC1204           |                              | IC uPC4558G2                                    |        |
|                |                   |   |        | IC1501           | 8-759-192-71                 |   |        |
| D209           |                   | DIODE DTZ10B                            |        | IC1502           |                              | IC CA0007AM                                     |        |
| D210           |                   | DIODE DTZ10B                            |        | IC1601<br>IC1602 | 8-759-198-03<br>8-759-231-53 | IC PQ09RF21                                     |        |
| D211<br>D212   |                   | DIODE DTZ10B<br>DIODE DTZ10B            |        | 101002           | 0-139-231-33                 | IC 1A/6033                                      |        |
| D212<br>D213   |                   | DIODE DIZIOB                            |        | IC2102           | 8-759-700-07                 | IC NJM2903M                                     |        |
| DZIJ           | 0-115-511-20      | DIODE DIZIOD                            |        | 102102           | 0 755 700 07                 | 10111112500111                                  |        |
| D214           | 8-719-110-17      | DIODE RD10ESB2                          |        | į                |                              |   |        |
| D215           |                   | DIODE RD10ESB2                          |        |                  |                              | <jack></jack>                                   |        |
| D216           | 8-719-110-17      | DIODE RD10ESB2                          |        | 1                |                              |   |        |
| D217           | 8-719-110-17      | DIODE RD10ESB2                          |        | J201             | 1-507-667-00                 |   |        |
| D218           | 8-719-110-17      | DIODE RD10ESB2                          |        | J203             | 1-507-667-00                 |   |        |
|                |                   |   |        | J204             | 1-507-667-00                 |   |        |
| D219           |                   | DIODE RD10ESB2                          |        | J205             |                              | JACK BLOCK, PIN                                 |        |
| D220           |                   | DIODE RD10ESB2                          |        | J206             | 1-//4-/49-11                 | JACK BLOCK, PIN                                 |        |
| D221           |                   | DIODE RD10ESB2                          |        | J207             | 1 774 740 11                 | JACK BLOCK, PIN                                 |        |
| D222<br>D225   |                   | DIODE RD10ESB2<br>DIODE RD10ESB2        |        | J207             | 1-774-749-11                 | JACK BLOCK, PIN                                 |        |
| D223           | 0-/19-110-1/      | DIODE RDIVESB2                          |        | J209             |                              | TERMINAL BLOCK,                                 | S      |
| D226           | 8-719-110-17      | DIODE RD10ESB2                          |        | 1200             | 1-774-751-11                 | 1 DAMEN ID DECCII,                              | •      |
| D232           |                   | DIODE MTZJ-T-77-36B                     |        | 1                |                              |   |        |
| D234           |                   | DIODE RD10ESB2                          |        |                  |                              | <chip conductor:<="" td=""><td>&gt;</td></chip> | >      |
| D235           |                   | DIODE RD10ESB2                          |        | 1                |                              |   |        |
| D236           |                   | DIODE RD10ESB2                          |        | JR001            |                              | CONDUCTOR, CHIP                                 |        |
|                |                   |   |        | JR002            | 1-216-295-91                 | CONDUCTOR, CHIP                                 |        |
| D237           |                   | DIODE RD10ESB2                          |        | JR201            |                              | CONDUCTOR, CHIP                                 |        |
| D238           |                   | DIODE RD10ESB2                          |        | JR202            |                              | CONDUCTOR, CHIP                                 |        |
| D239           |                   | DIODE 188133T-77                        |        | JR1501           | 1-216-295-91                 | CONDUCTOR, CHIP                                 |        |
| D240           |                   | DIODE 1SS133T-77                        |        | D1500            | 1 016 005 01                 | COMPLICATION CLIP                               |        |
| D241           | 8-719-991-33      | DIODE 1SS133T-77                        |        | JR1502           |                              | CONDUCTOR, CHIP                                 |        |
| D205           | 0.710.110.17      | DIODE BD10ECB2                          |        | JR1601           |                              | CONDUCTOR, CHIP                                 |        |
| D305           |                   | DIODE RD10ESB2                          |        | JR1603<br>JR1604 | 1-210-293-91                 | CONDUCTOR, CHIP CONDUCTOR, CHIP                 |        |
| D401<br>D403   |                   | DIODE 1SS133T-77<br>DIODE MTZJ-T-77-36B |        | JR1605           | 1-216-293-91                 | CONDUCTOR, CHIP                                 |        |
| D404           |                   | DIODE ISS133T-77                        |        | JK1005           | 1-210-275-71                 | COMPOCION, CIM                                  |        |
| D405           |                   | DIODE 1SS133T-77                        |        | JR1606           | 1-216-295-91                 | CONDUCTOR, CHIP                                 |        |
| 2105           | 0 113 331 00      | 5105515015177                           |        | JR1607           |                              | CONDUCTOR, CHIP                                 |        |
| D406           | 8-719-991-33      | DIODE 1SS133T-77                        |        | JR1608           | 1-216-295-91                 | CONDUCTOR, CHIP                                 |        |
| D407           |                   | DIODE 1SS133T-77                        |        | JR1609           | 1-216-295-91                 | CONDUCTOR, CHIP                                 |        |
| D408           |                   | DIODE 1SS133T-77                        |        | JR1610           | 1-216-295-91                 | CONDUCTOR, CHIP                                 |        |
| D409           |                   | DIODE 1SS133T-77                        |        | 1                |                              |   |        |
| D410           | 8-719-983-38      | DIODE MTZJ-T-77-36B                     |        | JR1611           |                              | CONDUCTOR, CHIP                                 |        |
|                | 0.840.000         | DIODE VIIICO (SIDA                      |        | JR1612           |                              | CONDUCTOR, CHIP                                 |        |
| D411           |                   | DIODE HZS9.1NB2                         |        | JR1613<br>JR1614 |                              | CONDUCTOR, CHIP CONDUCTOR, CHIP                 |        |
| D1101          |                   | DIODE MTZJ-33B                          |        | 1                |                              |   |        |
| D1102<br>D1103 |                   | DIODE DTZ10B<br>DIODE DTZ10B            |        | JR1615           | 1-410-473-91                 | CONDUCTOR, CHIP                                 |        |
| D1103          |                   | DIODE DTZ10B                            |        | JR1616           | 1-216-295-91                 | CONDUCTOR, CHIP                                 |        |
| 21107          | J-117-211-20      |   |        | JR1617           |                              | CONDUCTOR, CHIP                                 |        |
| D1105          | 8-719-977-28      | DIODE DTZ10B                            |        | JR1618           |                              | CONDUCTOR, CHIP                                 |        |
| D1106          |                   | DIODE DTZ10B                            |        | JR1619           |                              | CONDUCTOR, CHIP                                 |        |
| D1107          | 8-719-977-28      | DIODE DTZ10B                            |        | JR1620           |                              | CONDUCTOR, CHIP                                 |        |
| D1501          |                   | DIODE RD5.6ESB2                         |        | 1                |                              |   |        |
| D1502          | 8-719-908-03      | DIODE GP08D                             |        | JR1621           |                              | CONDUCTOR, CHIP                                 |        |
|                |                   |   |        | JR1622           |                              | CONDUCTOR, CHIP                                 |        |
|                |                   |   |        | JR1623           |                              | CONDUCTOR, CHIP                                 |        |
|                |                   | <ferrite bead=""></ferrite>             |        | JR1624           |                              | CONDUCTOR, CHIP                                 |        |
| ED1100         | 1 414 126 11      | INDUCTOR CUIP OF IL                     |        | JR1625           | 1-210-293-91                 | CONDUCTOR, CHIP                                 |        |
| FB1102         | 1-414-133-11      | INDUCTOR CHIP OUH                       |        | JR1626           | 1-216-205-01                 | CONDUCTOR, CHIP                                 |        |
|                |                   |   |        | JR1627           |                              | CONDUCTOR, CHIP                                 |        |
|                |                   | <ic></ic>                               |        | JATU2/           | 1-210-273-71                 | COMPOCION, CIM                                  |        |
|                |                   |   |        | 1                |                              |   |        |
| IC001          | 8-752-886-54      | IC CXP85856A-002S                       |        | 1                |                              | <coil></coil>                                   |        |
| IC002          |                   | IC CXP85112B-613S                       |        |                  |                              | -   |        |
| IC003          |                   | IC PST9143NL                            |        | L002             | 1-410-482-31                 | INDUCTOR 100UH                                  |        |
| IC004          | 8-759-352-91      | IC PST9143NL                            |        | L003             |                              | INDUCTOR 100UH                                  |        |
| IC007          | 8-759-518-23      | IC X24C04S8                             |        | L004             |                              | CONDUCTOR, CHIP                                 |        |
|                |                   |   |        | L005             | 1-216-295-91                 | CONDUCTOR, CHIP                                 |        |
|                |                   |   |        | •                |                              |   |        |



| REF NO                                    | PART NO.                                     | DESCRIPTION   | REMARK | REF. NO.                               | PART NO.                                     | DESCRIPTION  |                      | DEMADY                           |
|---|--|---|--------|--|--|--|----------------------|----------------------------------|
|   |  |   | KEMAKK |  |  | ***************************************  | . m                  | REMARK                           |
| L006                                      | 1-410-4/0-11                                 | INDUCTOR 10UH   |        | Q403                                   | 8-729-027-38                                 | TRANSISTOR DTA144EK  | A-T146               |                                  |
| L007<br>L201<br>L302<br>L303<br>L1101     | 1-410-478-11<br>1-410-482-31<br>1-410-470-11 | INDUCTOR 100UH<br>INDUCTOR 47UH<br>INDUCTOR 100UH<br>INDUCTOR 10UH<br>INDUCTOR 47UH |        | Q404<br>Q405<br>Q406<br>Q407<br>Q408   | 8-729-216-22<br>8-729-216-22<br>8-729-422-27 | TRANSISTOR DTC144EK,<br>TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q | <u>.</u>             |                                  |
| L1103<br>L1104<br>L1105<br>L1106<br>L1501 | 1-410-478-11<br>1-410-470-11<br>1-410-478-11 | INDUCTOR 47UH<br>INDUCTOR 47UH<br>INDUCTOR 10UH<br>INDUCTOR 47UH<br>INDUCTOR 8.2UH  |        | Q409<br>Q410<br>Q411<br>Q1101<br>Q1501 | 8-729-422-27<br>8-729-027-38<br>8-729-027-59 | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR DTA144EK.<br>TRANSISTOR DTC144EK.<br>TRANSISTOR 2SD601A-Q | A-T146<br>A-T146     |                                  |
| L1502<br>L1503                            |  | INDUCTOR 47UH<br>INDUCTOR 47UH  |        | Q2105<br>Q2106                         | 8-729-422-27<br>8-729-422-27                 | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q   |                      |                                  |
|   |  | <neon lamp=""></neon>   |        |  |  | <resistor></resistor>  |                      |                                  |
| NL1501                                    | 1-519-108-99                                 | LAMP, NEON  |        | R001<br>R002                           |  | METAL GLAZE 220<br>METAL GLAZE 220   | 5%<br>5%             | 1/10W<br>1/10W                   |
| PS401                                     | 1 522 004 11                                 | <ic link=""></ic>   |        | R003<br>R004<br>R005                   | 1-216-295-91<br>1-216-033-00                 | CONDUCTOR, CHIP<br>METAL GLAZE 220<br>METAL GLAZE 220  | 5%<br>5%             | 1/10W<br>1/10W                   |
| P3401                                     | 1-332-984-11                                 | LINK, IC (2A/90V)   |        | R006                                   |  | METAL GLAZE 220  | 5%                   | 1/10W                            |
|   |  | <transistor></transistor>   |        | R007<br>R008<br>R009                   | 1-216-073-00                                 | METAL GLAZE 22K<br>METAL GLAZE 10K   | 5%<br>5%             | 1/10W<br>1/10W                   |
| Q001<br>Q002                              |  | TRANSISTOR 2SD601A-Q<br>TRANSISTOR DTA144EKA-T146                                   | ;      | R010                                   |  | METAL GLAZE 220<br>METAL GLAZE 220   | 5%<br>5%             | 1/10W<br>1/10W                   |
| Q003<br>Q004<br>Q005                      | 8-729-027-38<br>8-729-216-22                 | TRANSISTOR DTA144EKA-T146<br>TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA1162-G           |        | R011<br>R012<br>R013<br>R014           | 1-216-033-00<br>1-216-033-00                 | METAL GLAZE 220<br>METAL GLAZE 220<br>METAL GLAZE 220<br>METAL GLAZE 220   | 5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W |
| Q006<br>Q007                              | 8-729-027-59                                 | TRANSISTOR DTA144EKA-T146 TRANSISTOR DTC144EKA-T146                                 |        | R015                                   | 1-216-025-91                                 | METAL GLAZE 100  | 5%                   | 1/10W                            |
| Q008<br>Q009<br>Q013                      | 8-729-027-38                                 | TRANSISTOR 2SD601A-Q<br>TRANSISTOR DTA144EKA-T146<br>TRANSISTOR 2SD601A-Q           | i      | R016<br>R017<br>R018<br>R019           | 1-216-065-00<br>1-216-065-00                 | METAL GLAZE 100<br>METAL GLAZE 4.7K<br>METAL GLAZE 4.7K<br>METAL GLAZE 100K  | 5%<br>5%<br>5%<br>5% | 1/10W<br>1/10W<br>1/10W<br>1/10W |
| Q015<br>Q016<br>Q017                      | 8-729-422-27                                 | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q                |        | R020<br>R021                           | 1-216-057-00                                 | METAL GLAZE 100K<br>METAL GLAZE 2.2K<br>METAL GLAZE 47K  | 5%<br>5%             | 1/10W<br>1/10W                   |
| Q201<br>Q202                              |  | TRANSISTOR 2SD601A-Q<br>TRANSISTOR DTC143TKA-T146                                   |        | R022<br>R023<br>R024                   | 1-216-065-00                                 | METAL GLAZE 220<br>METAL GLAZE 4.7K  | 5%<br>5%             | 1/10W<br>1/10W                   |
| Q203<br>Q205                              | 8-729-027-56                                 | TRANSISTOR 2SD601A-Q<br>TRANSISTOR DTC143TKA-T146                                   |        | R024<br>R025                           |  | METAL GLAZE 1M<br>METAL GLAZE 100K   | 5%<br>5%             | 1/10W<br>1/10W                   |
| Q206<br>Q207<br>Q208                      | 8-729-027-59                                 | TRANSISTOR DTC143TKA-T146<br>TRANSISTOR DTC144EKA-T146<br>TRANSISTOR DTC143TKA-T146 |        | R026<br>R027<br>R029                   | 1-216-065-00                                 | METAL GLAZE 220<br>METAL GLAZE 4.7K  | 5%<br>5%             | 1/10W<br>1/10W                   |
| Q200<br>Q209                              |  | TRANSISTOR DTC143TKA-T146   |        | R030<br>R033                           | 1-216-073-00                                 | METAL GLAZE 220<br>METAL GLAZE 10K<br>METAL GLAZE 4.7K   | 5%<br>5%<br>5%       | 1/10W<br>1/10W<br>1/10W          |
| Q213<br>Q214                              | 8-729-216-22                                 | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SA1162-G  |        | R034                                   |  | METAL GLAZE 10K  | 5%                   | 1/10W                            |
| Q216<br>Q217                              |  | TRANSISTOR DTC143TKA-T146<br>TRANSISTOR DTC143TKA-T146                              |        | R035<br>R036                           | 1-216-065-00                                 | METAL GLAZE 4.7K<br>METAL GLAZE 220  | 5%<br>5%             | 1/10W<br>1/10W                   |
| Q218                                      |  | TRANSISTOR 2SD601A-Q  |        | R037<br>R038                           | 1-216-033-00                                 | METAL GLAZE 220<br>METAL GLAZE 47K   | 5%<br>5%             | 1/10W<br>1/10W                   |
| Q219<br>Q220                              |  | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q  |        | R039                                   |  | METAL GLAZE 47K  | 5%                   | 1/10W                            |
| Q222<br>Q226                              |  | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q  |        | R040<br>R041                           |  | METAL GLAZE 4.7K<br>METAL GLAZE 100  | 5%<br>5%             | 1/10W<br>1/10W                   |
| Q301                                      | 8-729-216-22                                 | TRANSISTOR 2SA1162-G  |        | R042<br>R043                           |  | METAL GLAZE 47K<br>METAL GLAZE 47K   | 5%<br>5%             | 1/10W<br>1/10W                   |
| Q302<br>Q303                              | 8-729-216-22                                 | TRANSISTOR 2SA1162-G<br>TRANSISTOR 2SD601A-Q  |        | R045                                   |  | METAL GLAZE 10K  | 5%                   | 1/10W                            |
| Q304<br>Q305                              | 8-729-422-27                                 | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q  |        | R046<br>R047                           | 1-216-049-91                                 | METAL GLAZE 1K<br>METAL GLAZE 2.2K   | 5%<br>5%             | 1/10 <b>W</b><br>1/10 <b>W</b>   |
| Q306                                      | 8-729-216-22                                 | TRANSISTOR 2SA1162-G  |        | R048<br>R050                           | 1-216-065-00                                 | METAL GLAZE 4.7K<br>METAL GLAZE 10K  | 5%<br>5%             | 1/10W<br>1/10W                   |
| Q307<br>Q308                              | 8-729-216-22                                 | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SA1162-G  |        | R053                                   |  | METAL GLAZE 1K   | 5%                   | 1/10W                            |
| Q311<br>Q312                              | 8-729-422-27<br>8-729-422-27                 | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q  |        | R054<br>R056                           | 1-216-033-00                                 | METAL GLAZE 220<br>METAL GLAZE 1M  | 5%<br>5%             | 1/10W<br>1/10W                   |
| Q313                                      | 8-729-422-27                                 | TRANSISTOR 2SD601A-Q  |        | R057<br>R058                           | 1-216-049-91                                 | METAL GLAZE 1K<br>METAL GLAZE 1K   | 5%<br>5%             | 1/10W<br>1/10W                   |
| Q314<br>Q401<br>Q402                      | 8-729-422-27                                 | TRANSISTOR 2SD601A-Q<br>TRANSISTOR 2SD601A-Q<br>TRANSISTOR DTC144EKA-T146           |        | R059<br>R060                           |  | METAL GLAZE 220<br>METAL GLAZE 220   | 5%<br>5%             | 1/10W<br>1/10W                   |



| REF. NO.     | PART NO.         | DESCRIPTION                              |          | REMARK                         | REF. NO.     | PART NO.     | DESCRIPTION                             |             | REMARK         |
|--------------|------------------|--|----------|--------------------------------|--------------|--------------|---|-------------|----------------|
| R061         | 1_216_049_91     | METAL GLAZE 1K                           | 5%       | 1/10W                          | R204         | 1-249-377-11 | CARBON 0.47                             | 5%          | 1/4W F         |
| R062         |                  | METAL GLAZE 220                          | 5%       | 1/10W                          | R206         | 1-216-022-00 | METAL GLAZE 75                          | 5%          | 1/10W          |
| R063         |                  | METAL GLAZE 10K                          | 5%       | 1/10W                          | R210         |              | METAL GLAZE 470K                        | 5%          | 1/10W          |
|              | 4 04 4 0 4 0 0 4 | NOTATION AND 11/                         | EN       | 1/10W                          | R211<br>R212 |              | METAL GLAZE 470K<br>METAL GLAZE 470     | 5%<br>5%    | 1/10W<br>1/10W |
| R064<br>R065 |                  | METAL GLAZE 1K<br>METAL GLAZE 1K         | 5%<br>5% | 1/10W<br>1/10W                 | K212         | 1-210-041-00 | METAL GLAZE 470                         | 370         | 1/10**         |
| R066         |                  | METAL GLAZE 1K                           | 5%       | 1/10W                          | R213         |              | METAL GLAZE 470K                        | 5%          | 1/10W          |
| R067         | 1-216-033-00     | METAL GLAZE 220                          | 5%       | 1/10W                          | R214         |              | METAL GLAZE 470K                        | 5%          | 1/10W          |
| R068         | 1-216-033-00     | METAL GLAZE 220                          | 5%       | 1/10W                          | R215         |              | METAL GLAZE 470K<br>METAL GLAZE 470K    | 5%<br>5%    | 1/10W<br>1/10W |
| R070         | 1 216 022 00     | METAL GLAZE 220                          | 5%       | 1/10W                          | R216<br>R217 |              | METAL GLAZE 470K                        | 5%          | 1/10W          |
| R070<br>R071 |                  | METAL GLAZE 220<br>METAL GLAZE 220       | 5%       | 1/10W                          | 1            |              |   |             |                |
| R072         |                  | METAL GLAZE 220                          | 5%       | 1/10W                          | R218         |              | METAL GLAZE 75                          | 5%          | 1/10W          |
| R073         |                  | METAL GLAZE 220                          | 5%       | 1/10W                          | R219         |              | METAL GLAZE 470K<br>METAL GLAZE 470K    | 5%<br>5%    | 1/10W<br>1/10W |
| R074         | 1-216-049-91     | METAL GLAZE 1K                           | 5%       | 1/10W                          | R220<br>R221 |              | METAL GLAZE 770K                        | 5%          | 1/10W          |
| R075         | 1-216-049-91     | METAL GLAZE 1K                           | 5%       | 1/10W                          | R222         |              | METAL GLAZE 75                          | 5%          | 1/10W          |
| R076         | 1-216-033-00     | METAL GLAZE 220                          | 5%       | 1/10W                          |              |              |   | <i>50</i> 1 | 1 (100)        |
| R077         |                  | METAL GLAZE 1M                           | 5%       | 1/10W                          | R223         |              | METAL GLAZE 75<br>METAL GLAZE 47        | 5%<br>5%    | 1/10W<br>1/10W |
| R078         |                  | METAL GLAZE 100K<br>METAL GLAZE 10K      | 5%<br>5% | 1/10W<br>1/10W                 | R224<br>R225 |              | METAL GLAZE 2.2K                        | 5%          | 1/10W          |
| R080         | 1-210-073-00     | METAL GLAZE TOR                          | 370      | 1/10**                         | R226         |              | METAL GLAZE 10K                         | 5%          | 1/10W          |
| R081         | 1-216-033-00     | METAL GLAZE 220                          | 5%       | 1/10W                          | R227         | 1-216-019-00 | METAL GLAZE 56                          | 5%          | 1/10W          |
| R084         |                  | METAL GLAZE 10K                          | 5%       | 1/10W                          | D000         | 1 016 017 01 | METAL CLASE AS                          | 5%          | 1/10W          |
| R085         |                  | METAL GLAZE 100K                         | 5%<br>5% | 1/10W<br>1/10W                 | R228<br>R229 |              | METAL GLAZE 47<br>METAL GLAZE 1K        | 5%          | 1/10W          |
| R086<br>R087 | 1-216-033-00     | METAL GLAZE 220<br>METAL GLAZE 10K       | 5%       | 1/10W                          | R230         |              | METAL GLAZE 470K                        | 5%          | 1/10W          |
| KOO7         | 1-210-075 00     | WETTE COTED TOTAL                        | 2,5      |                                | R231         | 1-216-113-00 | METAL GLAZE 470K                        | 5%          | 1/10W          |
| R088         |                  | METAL GLAZE 4.7K                         | 5%       | 1/10W                          | R235         | 1-216-041-00 | METAL GLAZE 470                         | 5%          | 1/10W          |
| R090         |                  | METAL GLAZE 4.7K                         | 5%<br>5% | 1/10W<br>1/10W                 | R236         | 1-216-041-00 | METAL GLAZE 470                         | 5%          | 1/10W          |
| R091<br>R092 |                  | METAL GLAZE 2.2K<br>METAL GLAZE 2.2K     | 5%       | 1/10W                          | R241         |              | METAL GLAZE 470                         | 5%          | 1/10W          |
| R099         |                  | METAL GLAZE 330                          | 5%       | 1/10W                          | R245         | 1-216-041-00 | METAL GLAZE 470                         | 5%          | 1/10W          |
|              |                  |  |          | 1 /1 0337                      | R246         |              | METAL GLAZE 2.2K                        | 5%          | 1/10W<br>1/10W |
| R106         |                  | METAL GLAZE 220<br>METAL GLAZE 220       | 5%<br>5% | 1/10W<br>1/10W                 | R250         | 1-210-041-00 | METAL GLAZE 470                         | 5%          | 1/10W          |
| R111<br>R112 |                  | METAL GLAZE 220<br>METAL GLAZE 220       | 5%       | 1/10W                          | R251         | 1-216-041-00 | METAL GLAZE 470                         | 5%          | 1/10W          |
| R113         |                  | METAL GLAZE 220                          | 5%       | 1/10W                          | R255         |              | METAL GLAZE 10K                         | 5%          | 1/10W          |
| R115         | 1-216-033-00     | METAL GLAZE 220                          | 5%       | 1/10W                          | R258         |              | METAL GLAZE 47K                         | 5%          | 1/10W<br>1/10W |
| D110         | 1 01/ 022 00     | ACTAL CLAZE 220                          | 5%       | 1/10W                          | R260<br>R261 |              | ) METAL GLAZE 10K<br>) METAL GLAZE 4.7K | 5%<br>5%    | 1/10W          |
| R117<br>R118 |                  | METAL GLAZE 220<br>METAL GLAZE 220       | 5%       | 1/10W<br>1/10W                 | K201         | 1-210-003-00 | METAL GLAZE 4.7K                        | 570         | 1/10 **        |
| R119         |                  | METAL GLAZE 220                          | 5%       | 1/10W                          | R262         |              | METAL GLAZE 82K                         | 5%          | 1/10W          |
| R120         | 1-216-033-00     | METAL GLAZE 220                          | 5%       | 1/10W                          | R263         |              | METAL GLAZE 82K                         | 5%          | 1/10W          |
| R121         | 1-216-033-00     | METAL GLAZE 220                          | 5%       | 1/10W                          | R264<br>R265 |              | METAL GLAZE 47K<br>METAL GLAZE 100K     | 5%<br>5%    | 1/10W<br>1/10W |
| R122         | 1-216-033-00     | METAL GLAZE 220                          | 5%       | 1/10W                          | R266         |              | METAL GLAZE 2.2K                        | 5%          | 1/10W          |
| R123         |                  | METAL GLAZE 220                          | 5%       | 1/10W                          |              |              |   |             |                |
| R124         |                  | METAL GLAZE 220                          | 5%       | 1/10W                          | R268         |              | METAL GLAZE 220K                        | 5%          | 1/10W          |
| R125         | 1-216-033-00     | METAL GLAZE 220                          | 5%<br>5% | 1/10 <b>W</b><br>1/10 <b>W</b> | R273<br>R274 |              | ) METAL GLAZE 470<br>) METAL GLAZE 56   | 5%<br>5%    | 1/10W<br>1/10W |
| R126         | 1-210-033-00     | METAL GLAZE 220                          | 370      | 1/10**                         | R275         |              | METAL GLAZE 220                         | 5%          | 1/10W          |
| R127         | 1-216-033-00     | METAL GLAZE 220                          | 5%       | 1/10W                          | R276         | 1-216-033-00 | ) METAL GLAZE 220                       | 5%          | 1/10W          |
| R128         | 1-216-033-00     | METAL GLAZE 220                          | 5%       | 1/10W                          | D277         | 1 214 025 01 | METAL CLAZE 100                         | 5%          | 1/10W          |
| R131<br>R132 |                  | ) METAL GLAZE 4.7K<br>) METAL GLAZE 4.7K | 5%<br>5% | 1/10W<br>1/10W                 | R277<br>R278 |              | I METAL GLAZE 100<br>I METAL GLAZE 100  | 5%          | 1/10W          |
| R132         |                  | METAL GLAZE 4.7K                         | 5%       | 1/10W                          | R279         | 1-216-025-91 | METAL GLAZE 100                         | 5%          | 1/10W          |
| 24200        |                  |  |          |                                | R280         | 1-216-041-00 | ) METAL GLAZE 470                       | 5%          | 1/10W          |
| R147         |                  | METAL GLAZE 2.2K                         | 5%       | 1/10W<br>1/10W                 | R281         | 1-216-041-00 | METAL GLAZE 470                         | 5%          | 1/10 <b>W</b>  |
| R148<br>R149 | 1-216-057-00     | ) METAL GLAZE 2.2K<br>) METAL GLAZE 2.2K | 5%<br>5% | 1/10W                          | R282         | 1-216-041-00 | METAL GLAZE 470                         | 5%          | 1/10W          |
| R154         |                  | METAL GLAZE 100                          | 5%       | 1/10W                          | R283         | 1-216-041-00 | METAL GLAZE 470                         | 5%          | 1/10W          |
| R155         |                  | METAL GLAZE 100                          | 5%       | 1/10W                          | R284         |              | METAL GLAZE 470                         | 5%          | 1/10W          |
|              |                  |  | E 01     | 1/100                          | R285<br>R286 |              | ) METAL GLAZE 470<br>1 METAL GLAZE 100  | 5%<br>5%    | 1/10W<br>1/10W |
| R156<br>R157 |                  | ) METAL GLAZE 470K<br>I METAL GLAZE 47   | 5%<br>5% | 1/10W<br>1/10W                 | K200         | 1-210-023-9  | METAL GLAZE 100                         | 370         | 1/1011         |
| R157         | 1-216-113-00     | METAL GLAZE 470K                         | 5%       | 1/10W                          | R287         |              | 1 METAL GLAZE 100                       | 5%          | 1/10W          |
| R159         | 1-216-017-91     | I METAL GLAZE 47                         | 5%       | 1/10W                          | R288         | 1-216-025-9  | 1 METAL GLAZE 100                       | 5%          | 1/10W          |
| R160         | 1-216-113-00     | ) METAL GLAZE 470K                       | 5%       | 1/10W                          | R289<br>R290 |              | 1 METAL GLAZE 100<br>1 METAL GLAZE 100  | 5%<br>5%    | 1/10W<br>1/10W |
| R161         | 1-216-017-0      | I METAL GLAZE 47                         | 5%       | 1/10W                          | R290<br>R291 |              | 1 METAL GLAZE 100                       | 5%          | 1/10W          |
| R163         | 1-216-033-00     | ) METAL GLAZE 220                        | 5%       | 1/10W                          | į            |              |   |             |                |
| R164         | 1-216-033-00     | ) METAL GLAZE 220                        | 5%       | 1/10W                          | R294         | 1-216-043-9  | 1 METAL GLAZE 560                       | 5%<br>5%    | 1/10W<br>1/10W |
| R165         |                  | METAL GLAZE 220                          | 5%<br>5% | 1/10W<br>1/10W                 | R295<br>R296 | 1-210-0/3-0  | 0 METAL GLAZE 10K<br>1 METAL GLAZE 100  | 5%          | 1/10W<br>1/10W |
| R171         | 1-210-033-00     | METAL GLAZE 270                          | 370      | 1/10**                         | R290         | 1-216-093-0  | O METAL GLAZE 68K                       | 5%          | 1/10W          |
| R172         | 1-216-035-0      | METAL GLAZE 270                          | 5%       | 1/10W                          | R298         | 1-216-041-0  | 0 METAL GLAZE 470                       | 5%          | 1/10W          |
| R173         | 1-216-035-0      | METAL GLAZE 270                          | 5%       | 1/10W                          | p.000        | 1 016 041 0  | O METAL CLAZE 470                       | 5%          | 1/10W          |
| R201         |                  | METAL GLAZE 1K                           | 5%<br>5% | 1/10W<br>1/10W                 | R299<br>R301 |              | 0 METAL GLAZE 470<br>0 METAL GLAZE 470  | 5%<br>5%    | 1/10W          |
| R202<br>R203 |                  | 1 METAL GLAZE 1K<br>0 METAL GLAZE 75     | 5%       | 1/10W                          | R302         | 1-216-049-9  | 1 METAL GLAZE 1K                        | 5%          | 1/10W          |
|              |                  | <del></del>                              |          |                                | R303         | 1-216-049-9  | 1 METAL GLAZE 1K                        | 5%          | 1/10 <b>W</b>  |
|              |                  |  |          |                                | •            |              |   |             |                |



| REF. NO.     | PART NO.                     | DESCRIPTION                |              | R           | EMARK          | REF. NO.       | PART NO.                     | DESCRIPTION                |                     | P        | REMARK           |
|--------------|------------------------------|----------------------------|--------------|-------------|----------------|----------------|------------------------------|----------------------------|---------------------|----------|------------------|
| R304         | 1-216-049-91                 | METAL GLAZE                | 1 <b>K</b>   | 5%          | 1/10W          | R402           | 1-249-377-11                 | CARRON                     | 0.47                | 5%       | 1/4W F           |
|              |                              |                            |              |             |                | R403           | 1-216-073-00                 | METAL GLAZE                | 10K                 | 5%       | 1/10W            |
| R305<br>R306 |                              | METAL GLAZE<br>METAL GLAZE |              | 5%<br>5%    | 1/10W<br>1/10W | R404           | 1-216-065-00                 | METAL GLAZE                | 4.7K                | 5%       | 1/10W            |
| R307<br>R308 |                              | METAL GLAZE<br>METAL GLAZE |              | 5%<br>5%    | 1/10W<br>1/10W | R405<br>R406   |                              | METAL GLAZE<br>METAL GLAZE |                     | 5%       | 1/10W<br>1/10W   |
| R309         |                              | METAL GLAZE                |              | 5%          | 1/10W          | R407           |                              | METAL GLAZE                |                     | 5%<br>5% | 1/10W<br>1/10W   |
| R310         | 1-216-017-91                 | METAL GLAZE                | 47           | 5%          | 1/10W          | R408<br>R409   |                              | METAL GLAZE<br>METAL GLAZE |                     | 5%<br>5% | 1/10W<br>1/10W   |
| R314         | 1-216-033-00                 | METAL GLAZE                | 220          | 5%          | 1/10W          |                |                              |                            |                     |          |                  |
| R315<br>R319 | 1-216-033-00                 | METAL GLAZE<br>METAL GLAZE | 220          | 5%<br>5%    | 1/10W<br>1/10W | R410<br>R411   |                              | METAL GLAZE<br>METAL GLAZE |                     | 5%<br>5% | 1/10W<br>1/10W   |
| R320         | 1-216-033-00                 | METAL GLAZE                | 220          | 5%          | 1/10 <b>W</b>  | R412<br>R413   |                              | METAL GLAZE<br>METAL GLAZE |                     | 5%<br>5% | 1/10W<br>1/10W   |
| R321         |                              | METAL OXIDE                |              | 5%          | 3W F           | R414           |                              | METAL GLAZE                |                     | 5%       | 1/10W            |
| R322<br>R323 |                              | METAL GLAZE<br>METAL GLAZE |              | 5%<br>5%    | 1/10W<br>1/10W | R415           | 1-216-041-00                 | METAL GLAZE                | 470                 | 5%       | 1/10W            |
| R324         | 1-216-025-91                 | METAL GLAZE                | 100          | 5%          | 1/10W          | R416           | 1-216-041-00                 | <b>METAL GLAZE</b>         | 470                 | 5%       | 1/10W            |
| R325         | 1-210-025-91                 | METAL GLAZE                | 100          | 5%          | 1/10W          | R417<br>R418   | 1-249-402-11<br>1-216-025-91 | METAL GLAZE                | 56<br>100           | 5%<br>5% | 1/4W F<br>1/10W  |
| R326<br>R327 |                              | METAL GLAZE<br>METAL GLAZE |              | 0.50%<br>5% | 1/10W<br>1/10W | R419           | 1-216-689-11                 | METAL GLAZE                | 39 <b>K</b>         | 5%       | 1/10W            |
| R328         | 1-216-049-91                 | METAL GLAZE                | 1 <b>K</b>   | 5%          | 1/10W          | R420           |                              | METAL GLAZE                |                     | 5%       | 1/10 <b>W</b>    |
| R330<br>R331 |                              | METAL GLAZE METAL GLAZE    |              | 5%<br>5%    | 1/10W<br>1/10W | R421<br>R423   |                              | METAL GLAZE METAL GLAZE    |                     | 5%<br>5% | 1/10W<br>1/10W   |
|              |                              |                            |              |             |                | R424           | 1-216-089-91                 | METAL GLAZE                | 47K                 | 5%       | 1/10W            |
| R332<br>R333 |                              | METAL GLAZE METAL GLAZE    |              | 5%<br>0.50% | 1/10W<br>1/10W | R425           | 1-216-041-00                 | METAL GLAZE                | 470                 | 5%       | 1/10 <b>W</b>    |
| R334         | 1-216-043-91                 | <b>METAL GLAZE</b>         | 560          | 5%          | 1/10W          | R427           |                              | METAL GLAZE                |                     | 5%       | 1/10W            |
| R335<br>R337 |                              | METAL GLAZE<br>METAL GLAZE |              | 5%<br>5%    | 1/10W<br>1/10W | R428<br>R429   |                              | METAL GLAZE METAL GLAZE    |                     | 5%<br>5% | 1/10W<br>1/10W   |
| D220         | 1 216 022 00                 | METAL CLASE                | 220          |             | 1/1037         | R430           |                              | METAL GLAZE                |                     | 5%       | 1/10W            |
| R338<br>R339 |                              | METAL GLAZE<br>METAL GLAZE |              | 5%<br>5%    | 1/10W<br>1/10W | R432           | 1-216-081-00                 | METAL GLAZE                | 22K                 | 5%       | 1/10W            |
| R340<br>R342 |                              | METAL GLAZE METAL GLAZE    |              | 5%<br>5%    | 1/10W<br>1/10W | R433<br>R434   |                              | METAL GLAZE<br>METAL GLAZE |                     | 5%<br>5% | 1/10W<br>1/10W   |
| R343         |                              | METAL GLAZE                |              | 5%          | 1/10W          | R435           | 1-216-075-00                 | METAL GLAZE                | 12K                 | 5%       | 1/10W            |
| R344         | 1-216-067-00                 | METAL GLAZE                | 5.6K         | 5%          | 1/10W          | R436<br>R437   | 1-216-011-00<br>1-249-420-11 | METAL GLAZE<br>CARBON      | 27<br>1.8 <b>K</b>  | 5%<br>5% | 1/10W<br>1/4W F  |
| R345         | 1-216-109-00                 | <b>METAL GLAZE</b>         | 330K         | 5%          | 1/10W          |                |                              | -                          |                     |          |                  |
| R346<br>R347 |                              | METAL GLAZE<br>METAL GLAZE |              | 5%<br>5%    | 1/10W<br>1/10W | R438<br>R439   | 1-249-420-11<br>1-249-389-11 |                            | 1.8 <b>K</b><br>4.7 | 5%<br>5% | 1/4W F<br>1/4W F |
| R348         | 1-216-133-00                 | METAL GLAZE                | 3.3M         | 5%          | 1/10W          | R440<br>R441   | 1-249-389-11                 | CARBON<br>METAL GLAZE      | 4.7                 | 5%<br>5% | 1/4W F<br>1/10W  |
| R349         |                              | METAL GLAZE                |              | 5%          | 1/10W          | R442           |                              | METAL GLAZE                |                     | 5%       | 1/10 <b>W</b>    |
| R350<br>R351 |                              | METAL GLAZE<br>METAL GLAZE |              | 5%<br>5%    | 1/10W<br>1/10W | R1101          | 1-216-065-00                 | METAL GLAZE                | 4.7K                | 5%       | 1/10W            |
| R352         | 1-216-059-00                 | <b>METAL GLAZE</b>         | 2.7K         | 5%          | 1/10W          | R1102          | 1-216-083-00                 | <b>METAL GLAZE</b>         | 27K                 | 5%       | 1/10W            |
| R353         | 1-210-059-00                 | METAL GLAZE                | 2./K         | 5%          | 1/10W          | R1103<br>R1104 |                              | METAL GLAZE<br>METAL GLAZE |                     | 5%<br>5% | 1/10W<br>1/10W   |
| R354<br>R355 |                              | METAL GLAZE METAL GLAZE    |              | 5%<br>5%    | 1/10W<br>1/10W | R1105          |                              | METAL GLAZE                |                     | 5%       | 1/10W            |
| R356         | 1-216-025-91                 | METAL GLAZE                | 100          | 5%          | 1/10W          | R1106          | 1-216-083-00                 | METAL GLAZE                | 27K                 | 5%       | 1/10W            |
| R357<br>R361 |                              | METAL GLAZE<br>METAL GLAZE |              | 5%<br>5%    | 1/10W<br>1/10W | R1107<br>R1108 |                              | METAL GLAZE METAL OXIDE    |                     | 5%<br>5% | 1/10W<br>2W F    |
|              |                              |                            |              |             |                | R1201          | 1-216-039-00                 | <b>METAL GLAZE</b>         | 390                 | 5%       | 1/10W            |
| R362<br>R363 |                              | METAL GLAZE METAL GLAZE    |              | 5%<br>5%    | 1/10W<br>1/10W | R1202          | 1-216-089-91                 | METAL GLAZE                | 47K                 | 5%       | 1/10W            |
| R364<br>R365 |                              | METAL GLAZE METAL GLAZE    |              | 0.50%<br>5% | 1/10W<br>1/10W | R1203<br>R1204 |                              | METAL GLAZE                |                     | 5%       | 1/10W            |
| R366         |                              | METAL GLAZE                |              | 5%          | 1/10W          | R1205          | 1-216-083-00                 | METAL GLAZE<br>METAL GLAZE | 27K                 | 5%<br>5% | 1/10W<br>1/10W   |
| R367         | 1-216-083-00                 | METAL GLAZE                | 27K          | 5%          | 1/10W          | R1206<br>R1207 |                              | METAL GLAZE<br>METAL GLAZE |                     | 5%<br>5% | 1/10W<br>1/10W   |
| R368         | 1-216-049-11                 | METAL GLAZE                | 1 <b>K</b>   | 5%          | 1/10W          |                |                              |                            |                     |          |                  |
| R369<br>R370 |                              | METAL GLAZE METAL GLAZE    |              | 5%<br>5%    | 1/10W<br>1/10W | R1208<br>R1209 |                              | METAL GLAZE<br>METAL GLAZE |                     | 5%<br>5% | 1/10W<br>1/10W   |
| R371         |                              | METAL GLAZE                |              | 5%          | 1/10W          | R1210          | 1-216-099-00                 | METAL GLAZE                | 120K                | 5%       | 1/10W            |
| R372         | 1-216-065-00                 | METAL GLAZE                | 4.7K         | 5%          | 1/10W          | R1211<br>R1212 |                              | METAL GLAZE METAL GLAZE    |                     | 5%<br>5% | 1/10W<br>1/10W   |
| R373<br>R374 |                              | METAL GLAZE METAL GLAZE    |              | 5%<br>5%    | 1/10W<br>1/10W | R1213          | 1 216 072 00                 | METAL GLAZE                | 1017                | ECI      | 1/1037           |
| R375         | 1-216-101-00                 | METAL GLAZE                | 150K         | 5%          | 1/10W          | R1214          |                              | METAL GLAZE                |                     | 5%<br>5% | 1/10W<br>1/10W   |
| R376         | 1-216-097-91                 | METAL GLAZE                | 100K         | 5%          | 1/10W          | R1215<br>R1216 |                              | METAL GLAZE<br>METAL GLAZE |                     | 5%<br>5% | 1/10W<br>1/10W   |
| R377         |                              | METAL GLAZE                |              | 5%          | 1/10W          | R1217          |                              | METAL GLAZE                |                     | 5%       | 1/10W            |
| R378<br>R379 |                              | METAL GLAZE<br>METAL GLAZE |              | 5%<br>5%    | 1/10W<br>1/10W | R1218          | 1-216-083-00                 | METAL GLAZE                | 27K                 | 5%       | 1/10W            |
| R380<br>R381 | 1-216-089-91                 | METAL GLAZE<br>METAL GLAZE | 47K          | 5%          | 1/10W<br>1/10W | R1219<br>R1220 | 1-216-073-00                 | METAL GLAZE                | 10K                 | 5%       | 1/10W            |
|              |                              |                            |              | 5%          |                | R1221          | 1-216-065-00                 | METAL GLAZE<br>METAL GLAZE | 4.7K                | 5%<br>5% | 1/10W<br>1/10W   |
| R384<br>R401 | 1-249-377-11<br>1-249-377-11 |                            | 0.47<br>0.47 | 5%<br>5%    | 1/4W F         | R1222          | 1-216-073-00                 | METAL GLAZE                | 10K                 | 5%       | 1/10W            |
|              |                              |                            | •            |             | · · · · -      | 1              |                              |                            |                     |          |                  |

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ∆ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

• The components identified by 

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



| REF. NO.       | PART NO.                     | DESCRIPTION                             |                    | <b></b>     | REMARK          | REF. NO.       | PART NO.                             | DESCRIPTION  |                     | ,          | REMARK       |
|----------------|------------------------------|---|--------------------|-------------|-----------------|----------------|--------------------------------------|--|---------------------|------------|--------------|
| *********      | ************                 | *************************************** | 4.0==              |             |                 |                |                                      |  |                     | •          |              |
| R1223<br>R1224 |                              | METAL GLAZE METAL GLAZE                 |                    | 5%<br>5%    | 1/10W<br>1/10W  | R2205          | 1-216-041-00                         | METAL GLAZE  | 470                 | 5%         | 1/10W        |
| R1225          |                              | METAL GLAZE                             |                    | 5%          | 1/10W           | R2208          |                                      | METAL GLAZE  |                     | 5%         | 1/10W        |
| R1226<br>R1227 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%<br>5%    | 1/10W<br>1/10W  | R2209          | 1-210-041-00                         | METAL GLAZE  | 470                 | 5%         | 1/10W        |
| R1228          | 1-216-079-00                 | METAL GLAZE                             | 18K                | 5%          | 1/10W           |                |                                      | <relay></relay>  |                     |            |              |
| R1229          | 1-216-073-00                 | METAL GLAZE                             | 10K                | 5%          | 1/10W           | DV401          | 1 755 000 11                         |  |                     |            |              |
| R1230<br>R1231 | 1-216-081-00                 | METAL GLAZE<br>METAL GLAZE              | 22K                | 5%<br>5%    | 1/10W<br>1/10W  | RY401<br>RY402 | 1-755-028-11<br>1-755-028-11         |  |                     |            |              |
| R1232          | 1-216-081-00                 | METAL GLAZE                             | 22K                | 5%          | 1/10W           |                |                                      |  |                     |            |              |
| R1233          |                              | METAL GLAZE                             |                    | 5%          | 1/10W           |                |                                      | <terminal bc<="" td=""><td>ARD&gt;</td><td></td><td></td></terminal> | ARD>                |            |              |
| R1234<br>R1235 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%<br>5%    | 1/10W<br>1/10W  | TB201          | 1-694-303-11                         | TERMINAL, PUS  | SH                  |            |              |
| R1236<br>R1237 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%<br>5%    | 1/10W<br>1/10W  |                |                                      | •  |                     |            |              |
|                |                              |   |                    | -           |                 |                |                                      | <thermistor:< td=""><td>&gt;</td><td></td><td></td></thermistor:<>   | >                   |            |              |
| R1239<br>R1240 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%<br>5%    | 1/10W<br>1/10W  | TH1501         | 1-800-193-00                         | THERMISTOR   |                     |            |              |
| R1241<br>R1242 | 1-216-097-91                 | <b>METAL GLAZE</b>                      | 100K               | 5%<br>5%    | 1/10W<br>1/10W  |                |                                      |  |                     |            |              |
| R1242<br>R1245 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%          | 1/10W           |                |                                      | <tuner></tuner>  |                     |            |              |
| R1246          | 1-216-089-91                 | METAL GLAZE                             | 47K                | 5%          | 1/10W           | *T1111013      | N. SOR-340-00                        | TUNER BTF-WA   | 404                 |            |              |
| R1247<br>R1248 | 1-216-081-00                 | METAL GLAZE<br>METAL GLAZE              | 22K                | 5%<br>5%    | 1/10W<br>1/10W  |                |                                      | TUNER BTF-LA   |                     |            |              |
| R1249          | 1-216-089-91                 | METAL GLAZE                             | 47K                | 5%          | 1/10W           |                |                                      |  |                     |            |              |
| R1250          | 1-216-081-00                 | METAL GLAZE                             | 22K                | 5%          | 1/10 <b>W</b>   |                |                                      | <crystal></crystal>  |                     |            |              |
| R1251          |                              | METAL GLAZE                             |                    | 5%          | 1/10W           | X001           |                                      | VIBRATOR, CEI  |                     |            |              |
| R1252<br>R1253 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%<br>5%    | 1/10W<br>1/10W  | X002<br>X301   |                                      | VIBRATOR, CR'<br>OSCILLATOR, C                                       |                     |            |              |
| R1254<br>R1255 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%<br>5%    | 1/10W<br>1/10W  | X304           | 1-577-611-11                         | OSCILALTOR, C  | ERAMIC              |            |              |
|                |                              |   |                    |             |                 |                |                                      |  |                     |            |              |
| R1258<br>R1259 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%<br>5%    | 1/10W<br>1/10W  | ******         | *******                              | ******   | *****               | *****      | *****        |
| R1501<br>R1502 |                              | METAL OXIDE METAL CHIP                  | 2.7<br>10 <b>K</b> | 5%<br>0.50% | 1W F<br>1/10W   |                | * A_1216_212_A                       | G BOARD, CO  | MDI ETE /I          | 7D.53V/    | 15)          |
| R1504          |                              | METAL CHIP                              | 10K                | 0.50%       | 1/10W           |                | - W-1310-313-W                       | *******  |                     | W -33 4 4  | 13)          |
| R1506          | 1-215-888-00                 | METAL OXIDE                             | 220                | 5%          | 2W F            |                | * A-1316-314-A                       | G BOARD, CO  | MPLETE (F           | CP-48V4    | 15/61 V45)   |
| R1507<br>R1508 | 1-216-081-00<br>1-249-383-11 | METAL GLAZE                             | 22K<br>1.5         | 5%<br>5%    | 1/10W<br>1/4W F |                |                                      | ********   | ******              |            |              |
| R1509          | 1-216-675-11                 | METAL CHIP                              | 10K                | 0.50%       | 1/10W           |                | * A-1316-317-A                       | G BOARD, CO  | MPLETE (I           | CP-41T3    | 5)           |
| R1510          | 1-210-075-11                 | METAL CHIP                              | 10 <b>K</b>        | 0.50%       | 1/10W           |                |                                      | ************   | *****               |            |              |
| R1511<br>R1518 |                              | METAL GLAZE METAL OXIDE                 |                    | 5%<br>5%    | 1/10W<br>1W F   |                |                                      | PLATE, TRANSI<br>SCREW (M3X10  |                     |            |              |
| R1520          | 1-216-089-91                 | <b>METAL GLAZE</b>                      | 47K                | 5%          | 1/10W           |                |                                      | SCREW +PSW 3   |                     | ,          |              |
| R1522<br>R1523 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%<br>5%    | 1/10W<br>1/10W  |                |                                      |  |                     |            |              |
| R1524          |                              | METAL GLAZE                             |                    | 5%          | 1/10W           |                |                                      | <capacitor></capacitor>  |                     |            |              |
| R1525          | 1-216-686-11                 | METAL CHIP                              | 30K                | 0.50%       | 1/10W           | C502           | 1-126-959-11                         |  | 0.47MF              | 20%        | 50V          |
| R1526<br>R1527 |                              | METAL CHIP<br>METAL GLAZE               | 30K<br>100K        | 0.50%<br>5% | 1/10W<br>1/10W  | C504<br>C505   | 1-102-116-00<br>1-130-471-00         |  | 680PF<br>0.001MF    | 10%<br>5%  | 50V<br>50V   |
| R1528          |                              | METAL GLAZE                             |                    | 5%          | 1/10W           | C506<br>C507   | 1-126-933-11<br>1-126-965-11         | ELECT  | 100MF               | 20%<br>20% | 16V<br>50V   |
| R1529          |                              | METAL GLAZE                             |                    | 5%          | 1/10W           |                |                                      |  | 22MF                |            |              |
| R2103<br>R2106 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%<br>5%    | 1/10W<br>1/10W  | C508<br>C509   | 1-102-212-00<br>1-106-383-00         |  | 820PF<br>0.047MF    | 10%<br>10% | 500V<br>200V |
| R2107<br>R2108 | 1-216-073-00                 | METAL GLAZE<br>METAL GLAZE              | 10K                | 5%<br>5%    | 1/10W<br>1/10W  | C510<br>C511   | 1-102-002-00<br>1-130-475-00         | CERAMIC  | 680PF<br>0.0022MF   | 10%        | 500V<br>50V  |
|                |                              |   |                    |             |                 | C512           | 1-130-471-00                         |  | 0.0022MF<br>0.001MF | 5%         | 50V          |
| R2109<br>R2110 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%<br>5%    | 1/10W<br>1/10W  | C513           | 1-126-965-11                         | ELECT  | 22MF                | 20%        | 50V          |
| R2111<br>R2112 | 1-216-089-91                 | METAL GLAZE<br>METAL GLAZE              | 47K                | 5%<br>5%    |                 | BC514 &        | l.                                   | CBRAMIC  |                     | 5%         | 2KV<br>630V  |
| R2112<br>R2113 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%          | 1/10W<br>1/10W  | C516 /         | L I - 129-720-00<br>L I - 117-807-11 | CAPACITOR  | 0.033MF<br>0        | 0          | Ö            |
| R2117          | 1-216-073-00                 | METAL GLAZE                             | 10K                | 5%          | 1/10W           | C518           | 1-130-495-00                         | MYLAR  | 0.1MF               | 5%         | 50V          |
| R2118          | 1-216-081-00                 | METAL GLAZE                             | 22K                | 5%          | 1/10W           | C519           | 1-136-287-11                         |  | 0.0047MF            |            | 100V         |
| R2121<br>R2122 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%<br>5%    | 1/10W<br>1/10W  | C520<br>C521   | 1-162-116-00<br>1-162-116-00         |  | 680PF<br>680PF      | 10%<br>10% | 2KV<br>2KV   |
| R2125          | 1-216-065-00                 | METAL GLAZE                             | 4.7K               | 5%          | 1/10W           | C523<br>C524   | 1-117-813-11<br>1-136-287-11         | CAPACITOR<br>FILM  | 0<br>0.0047MF       | 0<br>5%    | 0<br>100V    |
| R2201          |                              | METAL GLAZE                             |                    | 5%          | 1/10W           |                |                                      |  |                     |            |              |
| R2202<br>R2203 |                              | METAL GLAZE<br>METAL GLAZE              |                    | 5%<br>5%    | 1/10W<br>1/10W  | C526<br>C527   | 1-102-228-00<br>1-126-967-11         |  | 470PF<br>47MF       | 10%<br>20% | 500V<br>50V  |
| R2204          | 1-216-045-00                 | METAL GLAZE                             | 680                | 5%          | 1/10W           | C528           | 1-107-649-11                         | ELECT  | 2.2MF               | 20%        | 250V         |
|                |                              |   |                    |             |                 |                |                                      |  |                     |            |              |



Les composants identifies par une trame et une marque \( \Delta \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ∆ are critical for safety
Replace only with part number specified.

|              |                               |  |  |                        |              | 3              | piece portant le ni          | ımero specifie.   | specified.         | ,          | 2           |
|--------------|-------------------------------|--|--|------------------------|--------------|----------------|------------------------------|---|--------------------|------------|-------------|
| REF. NO.     | PART NO.                      | DESCRIPTION  |  |                        | REMARK 1     | REF. NO.       | PART NO.                     | DESCRIPTION   | ` %4'              | )W."       | REMARK      |
|              |                               |  |  |                        |              |                |                              |   |                    |            |             |
| C529         | 1-117-673-11                  |  | 1.5MF                                    | 5%                     | 200V<br>160V | C812<br>C813   | 1-136-169-00<br>1-137-374-11 |   | 0.22MF<br>0.047MF  | 5%<br>5%   | 50V<br>50V  |
| C530         | 1-110-626-11                  | ELECT  | 330MF                                    | 20%                    | 100 V        | C815           | 1-104-665-11                 |   | 100MF              | 20%        | 25V         |
| C531         | 1-126-971-11                  |  | 470MF                                    | 20%                    | 50V          | C816           | 1-126-964-11                 |   | 10MF               | 20%        | 50V         |
| C532         | 1-126-971-11                  |  | 470MF                                    | 20%                    | 50V          | C010           | 1 126 022 11                 | EI ECT  | 1003/07            | 20%        | 16V         |
| C533<br>C535 | 1-128-562-11<br>1-106-387-00  |  | 47MF<br>0.068MF                          | 20%<br>10%             | 100V<br>200V | C818<br>C819   | 1-126-933-11<br>1-126-964-11 |   | 100MF<br>10MF      | 20%        | 50V         |
| C536         | 1-137-374-11                  |  | 0.047MF                                  | 5%                     | 50V          | C820           | 1-102-114-00                 |   | 470PF              | 10%        | 50V         |
|              |                               |  |  |                        |              | C821           | 1-130-495-00                 |   | 0.1MF              | 5%         | 50V         |
| C537<br>C538 | 1-126-968-11<br>1-126-968-11  |  | 100MF<br>100MF                           | 20%<br>20%             | 50V<br>50V   | C823           | 1-101-880-00                 | CERAMIC   | 47PF               | 5%         | 50V         |
| C539         | 1-162-114-00                  |  | 0.0047MF                                 | 20 %                   | 2KV          | C825           | 1-104-665-11                 | ELECT   | 100MF              | 20%        | 25V         |
| C540         | 1-130-487-00                  | MYLAR  | 0.022MF                                  | 5%                     | 50V          | C826           | 1-136-165-00                 |   | 0.1MF              | 5%         | 50V         |
| C541         | 1-130-489-00                  | MYLAR  | 0.033MF                                  | 5%                     | 50V          | C827<br>C828   | 1-126-960-11<br>1-137-366-11 |   | 1MF<br>0.0022MF    | 20%        | 50V<br>50V  |
| C542         | 1-126-969-11                  | ELECT  | 220MF                                    | 20%                    | 50V          | C829           | 1-126-959-11                 |   | 0.47MF             | 20%        | 50V         |
| C544         | 1-104-665-11                  | ELECT  | 100MF                                    | 20%                    | 25V          |                |                              |   |                    |            |             |
| C545         | 1-104-665-11                  |  | 100MF                                    | 20%                    | 25V          | C830           | 1-130-467-00                 |   | 470PF<br>1MF       | 5%<br>20%  | 50V<br>50V  |
| C546<br>C548 | 1-107-637-11<br>1-102-244-00  |  | 22MF<br>220PF                            | 20%<br>10%             | 160V<br>500V | C831<br>C832   | 1-126-960-11<br>1-126-960-11 |   | 1MF                | 20%        | 50V         |
| C540         | 1 102 244 00                  | CLIGATION  | 22011                                    | 1070                   | 5001         | C833           | 1-126-960-11                 |   | 1MF                | 20%        | 50V         |
| C550         | 1-126-935-11                  |  | 470MF                                    | 20%                    | 16V          | C834           | 1-126-968-11                 | ELECT   | 100MF              | 20%        | 50V         |
| C551         | 1-126-935-11                  |  | 470MF<br>0.0033MF                        | 20%                    | 16V<br>630V  | C835           | 1-126-967-11                 | EI ECT  | 47MF               | 20%        | 50V         |
| C554<br>C555 | 1-136-557-11<br>1-126-960-11  |  | 1MF                                      | 20%                    | 50V          | C836           | 1-136-169-00                 |   | 0.22MF             | 5%         | 50V         |
| C556         | 1-130-495-00                  |  | 0.1MF                                    | 5%                     | 50V          | C837           | 1-126-963-11                 | ELECT   | 4.7MF              | 20%        | 50V         |
|              | enterior de l'acceptant de la | r <del>parama, programas c</del> olonios.              | A. WHAAK AN                              | 30 <b>439304</b> . COS | *****        | C838           | 1-104-665-11                 |   | 100MF              | 20%        | 25V         |
| C602 Z       | 1-102-228-00                  | CERAMIC  | 470PF                                    | 10%                    | 500V         | C839           | 1-137-374-11                 | FILM  | 0.047MF            | 5%         | 50V         |
| C604 % Z     | M-136-311-51                  | FILM   | 0.47MF                                   | 20%                    | 125V         | C840           | 1-104-665-11                 | ELECT   | 100MF              | 20%        | 25V         |
| C605 3 4     | M-113-890-31                  | APPED A ARTHUM AND AND AND AND AND AND AND AND AND AND | · ሲሊ ሲሊ ሲሊ ሲ ሲ ሲ ሲ ሲ ሲ ሲ ሲ ሲ ሲ ሲ ሲ ሲ ሲ ሲ | 700                    | 250V         | C841           | 1-137-374-11                 |   | 0.047MF            | 5%         | 50V         |
| C606. 2      | N 1+136-311-51                | FILM   | 0.47MF                                   | 20%                    | 125V         | C842<br>C843   | 1-137-374-11<br>1-126-968-11 |   | 0.047MF<br>100MF   | 5%<br>20%  | 50V<br>50V  |
| C607         | 1-125-692-11                  | ELECT(BLOCK)   | 820MF                                    | 20%                    | 200V         | C844           | 1-126-933-11                 |   | 100MF              | 20%        | 16V         |
| C608         | 1-125-692-11                  | ELECT(BLOCK)   | 820MF                                    | 20%                    | 200V         |                |                              |   |                    |            |             |
| C612         | 1-164-646-11                  |  | 2200PF                                   | 10%                    | 500V<br>50V  | C845<br>C846   | 1-126-933-11<br>1-126-933-11 |   | 100MF<br>100MF     | 20%<br>20% | 16V<br>16V  |
| C615<br>C616 | 1-136-173-00<br>1-136-173-00  |  | 0.47MF<br>0.47MF                         | 5%<br>5%               | 50V          | C847           | 1-126-933-11                 |   | 100MF              | 20%        | 16V         |
| 00.0         | 1 100 170 00                  |  |  |                        |              | C848           | 1-126-933-11                 | ELECT   | 100MF              | 20%        | 16 <b>V</b> |
| C617         | 1-136-169-00                  |  | 0.22MF                                   | 5%                     | 50V          | C851           | 1-137-374-11                 | FILM  | 0.047MF            | 5%         | 50V         |
| C618<br>C621 | 1-136-169-00<br>1-129-719-00  |  | 0.22MF<br>0.027MF                        | 5%<br>5%               | 50V<br>630V  | C852           | 1-137-374-11                 | FILM  | 0.047MF            | 5%         | 50V         |
| C651         | 1-126-804-11                  |  | 100MF                                    | 20%                    | 35V          | C853           | 1-137-374-11                 |   | 0.047MF            | 5%         | 50V         |
| C652         | 1-123-024-21                  |  | 33MF                                     |                        | 160V         | C854           | 1-126-933-11                 |   | 100MF              | 20%        | 16V         |
| 0453         | 1-115-755-11                  | EL ECT   | 180MF                                    | 20%                    | 16V          | C857<br>C858   | 1-126-933-11<br>1-104-665-11 |   | 100MF<br>100MF     | 20%<br>20% | 16V<br>25V  |
| C653<br>C654 | 1-115-755-11                  |  | 180MF                                    | 20%                    | 16V          | C020           | 1-10005-11                   | ELECT   | TOOM               | 20 %       | 23 4        |
| C655         | 1-126-943-11                  | ELECT  | 2200MF                                   | 20%                    | 25V          | C860           | 1-126-933-11                 |   | 100MF_             | 20%        |             |
| C656         | 1-126-943-11                  |  | 2200MF                                   | 20%                    | 25V          | C861           | 1-137-374-11                 |   | 0.047MF<br>0.047MF | 5%<br>5%   | 50V<br>50V  |
| C657         | 1-126-943-11                  | ELECT  | 2200MF                                   | 20%                    | 25V          | C862<br>C863   | 1-137-374-11<br>1-137-374-11 |   | 0.047MF            | 5%         | 50V<br>50V  |
| C658         | 1-128-550-11                  | ELECT  | 2200MF                                   | 20%                    | 50V          | C864           | 1-126-933-11                 | ELECT   | 100MF              |            | 16V         |
| C659         | 1-102-074-00                  | CERAMIC  | 0.001MF                                  | 10%                    | 50V          | G0.55          | 1 100 471 00                 | 1437 AB   | 0.0013.65          | -01        | E017        |
| C660<br>C661 | 1-126-235-11<br>1-102-074-00  |  | 100MF<br>0.001MF                         | 20%<br>10%             | 6.3V<br>50V  | C865<br>C866   | 1-130-471-00<br>1-136-177-00 |   | 0.001MF<br>1MF     | 5%<br>5%   | 50V<br>50V  |
| C662         | 1-104-664-11                  |  | 47MF                                     | 20%                    | 25V          | C867           | 1-101-880-00                 |   | 47PF               | 5%         | 50V         |
|              |                               |  |  |                        |              | C868           | 1-101-880-00                 | CERAMIC   | 47PF               | 5%         | 50V         |
| C663         | 1-104-664-11                  |  | 47MF<br>47MF                             | 20%<br>20%             | 25V<br>25V   | C869           | 1-130-489-00                 | MYLAK   | 0.033MF            | 5%         | 50V         |
| C664<br>C665 | 1-104-664-11<br>1-104-666-11  |  | 47MF<br>220MF                            | 20%                    | 25V<br>25V   | C871           | 1-101-880-00                 | CERAMIC   | 47PF               | 5%         | 50V         |
| C666         | 1-126-960-11                  | ELECT  | 1 <b>MF</b>                              | 20%                    | 50V          | C872           | 1-101-880-00                 | CERAMIC   | 47PF               | 5%         | 50V         |
| C667         | 1-104-664-11                  | ELECT  | 47MF                                     | 20%                    | 25V          | C873           | 1-101-880-00                 |   | 47PF               | 5%<br>20%  | 50V         |
| C671         | 1-104-664-11                  | ELECT  | 47MF                                     | 20%                    | 25V          | C880<br>C881   | 1-126-961-11<br>1-102-973-00 |   | 2.2MF<br>100PF     | 20%<br>5%  | 50V<br>50V  |
| C672         | 1-126-971-11                  | ELECT  | 470MF                                    | 20%                    | 50V          |                |                              |   |                    |            |             |
| C673         | 1-164-644-11                  |  | 330PF                                    | 10%                    | 500V         | C882           | 1-102-973-00                 |   | 100PF              | 5%         | 50V         |
| C675         | 1-104-665-11                  |  | 100MF<br>1MF                             | 20%<br>20%             | 25V<br>50V   | C883<br>C884   | 1-102-973-00<br>1-104-665-11 |   | 100PF<br>100MF     | 5%<br>20%  | 50V<br>25V  |
| C676         | 1-126-960-11                  | ا بانداند  | TATL                                     | 2070                   | JU 1         | C885           | 1-126-961-11                 |   | 2.2MF              | 20%        |             |
| C801         | 1-104-665-11                  |  | 100MF                                    | 20%                    | 25V          | C886           | 1-102-973-00                 |   | 100PF              | 5%         | 50V         |
| C802         | 1-104-665-11                  |  | 100MF                                    | 20%                    | 25V<br>16V   | C887           | 1-102-973-00                 | CEDAMIC   | 100PF              | 5%         | 50V         |
| C803<br>C804 | 1-126-934-11<br>1-126-934-11  |  | 220MF<br>220MF                           | 20%<br>20%             | 16V<br>16V   | C888           | 1-102-973-00                 |   | 100PF              | 5%         | 50V<br>50V  |
| C805         | 1-126-934-11                  |  | 220MF                                    | 20%                    | 16V          | C889           | 1-104-665-11                 |   | 100MF              | 20%        | 25V         |
|              |                               |  |  |                        |              | C897           | 1-104-665-11                 |   | 100MF              | 20%        |             |
| C806         | 1-126-934-11                  |  | 220MF<br>0.047MF                         | 20%<br>5%              | 16V<br>50V   |                |                              |   |                    |            |             |
| C807<br>C808 | 1-137-374-11<br>1-137-374-11  |  | 0.047MF<br>0.047MF                       | 5%<br>5%               | 50V<br>50V   | :              |                              | <connector< td=""><td>R&gt;</td><td></td><td></td></connector<> | R>                 |            |             |
| C809         | 1-137-374-11                  | FILM   | 0.047MF                                  | 5%                     | 50V          |                |                              |   |                    |            |             |
| C810         | 1-137-374-11                  | FILM   | 0.047MF                                  | 5%                     | 50V          | CN501          |                              | PLUG, CONNI   |                    | ADD        | AD.         |
| C811         | 1-137-366-11                  | FII.M  | 0.0022MF                                 | 5%                     | 50V          | CN502<br>CN503 |                              | PIN, CONNEC   |                    |            |             |
| 2011         | 1 137-300-11                  |  | 0.00221711                               | - /~                   |              | 1              |                              |   |                    |            |             |

The componants identified by shading and mark  $\Delta$  are critical for safety.
Replace only with part number specified.

REF. NO. PART NO. DESC

Les composants identifies par une trame et une marque \( \Delta \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



| REF. NO.                             | PART NO.  | DESCRIPTION  | REMARK                                  | REF. NO.                                  | PART NO.                                     | DESCRIPTION  | REMARK                                    |
|--------------------------------------|---|--|---|---|--|--|---|
|                                      |   | PIN, CONNECTOR (PC BOARD) 4<br>PIN, CONNECTOR 2P   | IP                                      | D850<br>D852<br>D853                      | 8-719-923-86                                 | DIODE RD5.6ESB2<br>DIODE MTZJ-T-77-15<br>DIODE MTZJ-30A  |   |
| CN507<br>CN601                       | *1-564-507-11<br>*1-580-843-11<br>*1-774-182-11       | CONNECTOR, BOARD TO BOAR<br>PLUG, CONNECTOR 4P<br>PIN, CONNECTOR (POWER)<br>CONNECTOR, BOARD TO BOAR<br>CONNECTOR, BOARD TO BOAR | D10P                                    | D854<br>D855<br>D856<br>D857              | 8-719-982-19<br>8-719-923-86<br>8-719-982-19 | DIODE MTZJ-30A<br>DIODE MTZJ-30A<br>DIODE MTZJ-T-77-15<br>DIODE MTZJ-30A                                   |   |
| CN801<br>CN802                       | *1-564-507-11<br>*1-564-507-11                        | PIN, CONNECTOR (PC BOARD) 3<br>PLUG, CONNECTOR 4P<br>PLUG, CONNECTOR 4P  | 3P                                      | D859<br>D860                              |  | DIODE MTZJ-T-77-15<br>DIODE MTZJ-30A   |   |
|                                      |   | PLUG, CONNECTOR 4P<br>CONNECTOR, BOARD TO BOAR   | D10P                                    |   |  | <fuse></fuse>  |   |
| CN805                                | *1-691-134-11   | PIN, CONNECTOR (PC BOARD) 2  | 2P                                      | F601 /                                    |  | FUSE, OLASS TUBE 6.<br>CLIP, FUSE ; F601   | IA/125V/T/T/F/S/S                         |
|                                      |   | <diode></diode>  |   |   |  | <ferrite bead=""></ferrite>  |   |
| D501<br>D502<br>D504<br>D507<br>D508 | 8-719-991-33<br>8-719-921-63<br><b>A</b> 8-719-302-43 | DIODE 1SS133T-77<br>DIODE 1SS133T-77<br>DIODE MTZJ-7.5B<br>DIODE EL1Z<br>DIODE ERD29-08J   | ~`````\\############################### | FB501<br>FB651<br>FB652<br>FB653<br>FB654 | 1-410-396-41<br>1-410-396-41<br>1-410-396-41 | FERRITE BEAD INDUC<br>FERRITE BEAD INDUC<br>FERRITE BEAD INDUC<br>FERRITE BEAD INDUC<br>FERRITE BEAD INDUC | CTOR 0.45UH<br>CTOR 0.45UH<br>CTOR 0.45UH |
| D509<br>D510                         | 8-719-945-80  | DIODE ERC06-15S<br>DIODE ERC06-15S   |   | FB655                                     |  | FERRITE BEAD INDUC   |   |
| D511<br>D513<br>D514                 | 8-719-302-43<br>8-719-908-03                          | DIODE EL1Z<br>DIODE EL1Z<br>DIODE GP08D<br>DIODE GP08D   |   | FB656<br>FB657<br>FB660<br>FB661          | 1-410-396-41<br>1-412-761-11                 | FERRITE BEAD INDUC<br>FERRITE BEAD INDUC<br>INDUCTOR, FERRITE I<br>INDUCTOR, FERRITE I                     | CTOR 0.45UH<br>BEAD                       |
| D517<br>D519<br>D520                 | 8-719-018-82<br>8-719-991-33                          | DIODE GRUND<br>DIODE RGP02-20EL-6394<br>DIODE 1SS133T-77<br>DIODE EL1Z   |   |   |  | <ic></ic>  |   |
| D521                                 |   | DIODE ELIZ   |   | IC501<br>IC601                            | 8-759-133-90<br>8-720-041-12                 | IC uPC339C<br>TRANSISTOR MX0841  | AR-R                                      |
| D524<br>D527<br>D528                 | 8-719-109-85<br>8-719-923-86                          | DIODE 1SS133T-77<br>DIODE RD5.1ESB2<br>DIODE MTZJ-T-77-15<br>DIODE LN4SB60   |   | IC651 A<br>IC651<br>IC652                 | 8-749-012-13                                 | POWER MODULE DM-   | 48  |
| D651                                 | 8-719-510-26  | DIODE DINL20-TA  | · // ********************************** | IC653<br>IC654                            | 8-759-231-53<br>8-759-231-53                 |  |   |
| D652<br>D653                         | 8-719-510-02  | DIODE 1SS133T-77<br>DIODE D1NS4  |   | IC655<br>IC801                            | 8-759-231-58<br>8-759-327-51                 | IC PA0053B   |   |
| D654<br>D655                         | 8-719-061-56  | DIODE D2S4MF<br>DIODE RBA-402LLF-A<br>DIODE D10SBS4F   |   | IC802                                     | 8-759-327-51                                 |  |   |
| D656<br>D657                         |   | DIODE DISSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS  |   | IC803<br>IC804<br>IC805                   | 8-759-464-79                                 | IC CA0007AD<br>IC PM0011AS<br>IC NJM2058D  |   |
| D658<br>D660                         | 8-719-510-12  | DIODE D10SC4M<br>DIODE 1SS133T-77  |   | IC806<br>IC808                            | 8-759-464-79                                 | IC PM0011AS<br>IC PM0011AS   |   |
| D661<br>D662                         |   | DIODE 11ES2<br>DIODE 1SS133T-77  |   | IC809                                     |  | IC STK392-110  |   |
| D664<br>D669                         |   | DIODE RD24ESB1<br>DIODE 1SS133T-77   |   | IC810<br>IC811                            | 8-749-012-97<br>8-759-634-51                 | IC STK392-110<br>IC M5218AP  |   |
| D670<br>D691<br>D692                 | 8-719-921-86<br>8-719-200-82                          | DIODE MTZJ-13<br>DIODE 11ES2   |   |   |  | <coil></coil>  |   |
| D693                                 |   | DIODE 11ES2<br>DIODE 11ES2   |   | L502<br>L503                              |  | INDUCTOR 47UH<br>COIL, DRAM CORE (CI   | מס  |
| D694<br>D801                         | 8-719-200-82  | DIODE 11ES2<br>DIODE RD10ESB2  |   | L506<br>L509                              | 1-412-552-11                                 | INDUCTOR 2.2mH<br>INDUCTOR 47UH  |   |
| D802<br>D803                         |   | DIODE RD10ESB2<br>DIODE RD10ESB2   |   |   |  | TRANSFORMER, LINE  | FILTER                                    |
| D804<br>D820<br>D828<br>D829         | 8-719-109-68<br>8-719-109-89<br>8-719-109-84          | DIODE RD10ESB2<br>DIODE RD3.6ESB1<br>DIODE RD5.6ESB2<br>DIODE RD5.1ESB1  |   | L651<br>L652<br>L653<br>L654<br>L656      | 1-414-158-11<br>1-414-158-11<br>1-414-158-11 | INDUCTOR 2.2UH INDUCTOR 2.2UH INDUCTOR 2.2UH INDUCTOR 2.2UH INDUCTOR 6.8UH                                 |   |
| D835<br>D840                         |   | DIODE RD5.6ESB2<br>DIODE 1SS133T-77  |   | L801<br>L802                              | 1-406-975-21<br>1-406-975-21                 | COIL, CHOKE 47UH<br>COIL, CHOKE 47UH   |   |
| D842<br>D845                         | 8-719-991-33  | DIODE 1SS133T-77<br>DIODE 1SS133T-77   |   |   |  |  |   |
| D846<br>D847                         |   | DIODE 1SS133T-77<br>DIODE MTZJ-30A   |   | AW #0.                                    | 1 #10 100 00                                 | <neon lamp=""></neon>  |   |
| D848<br>D849                         |   | DIODE MTZJ-T-77-15<br>DIODE RD11ESB2   |   | NL501                                     | 1-519-108-99                                 | LAMP, NEON   |   |



Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

|                |                              | epiacement be re<br>originally used.            | quirea, replace | e Only with the   | ie value     | piece portant le nu          | umero specifie.         | specified.                 |               |                          | di       |
|----------------|------------------------------|---|-----------------|-------------------|--------------|------------------------------|-------------------------|----------------------------|---------------|--------------------------|----------|
| REF. NO.       | PART NO.                     | DESCRIPTION                                     |                 | REMARK            | REF. NO.     | PART NO.                     | DESCRIPTION             |                            | R             | EMARK                    | ₹        |
|                |                              | <ic link=""></ic>                               |                 |                   | R540         | 1-249-379-11                 | CARBON                  | 0.68                       | 5%            | 1/4W F                   |          |
|                |                              | LINK, IC  |                 |                   | R541         | 1-247-807-31                 | CARBON                  | 100                        | 5%            | ept 41T35<br>1/4W        | "        |
| PS602 /        | <u> </u>                     | LINK, IC  |                 | 184 - 467 c Silli | R542         | 1-215-862-11                 | METAL OXIDE             | 68                         | 5%            | 1W F<br>ept 53V45        | F<br>S)  |
|                |                              | <transistor></transistor>                       |                 |                   | R542         | 1-215-864-00                 | METAL OXIDE             | 150                        | 5%            |                          | F        |
| Q501           |                              | TRANSISTOR 2S                                   |                 | V 1\              | R543<br>R544 |                              | METAL OXIDE             |                            | 5%<br>5%      | 1W I                     | F<br>F   |
| Q502<br>Q503   | 8-729-119-76                 | TRANSISTOR 2S<br>TRANSISTOR 2S<br>TRANSISTOR 2S | A1175-HFE       | 1-1)              | R544         |                              | METAL OXIDE             |                            |               | ept 53V45                | 5)       |
| Q504<br>Q505   |                              | TRANSISTOR IR                                   |                 |                   | K544         | 1 213 007 00                 | WELLE OFFIE             | 100                        |               | (53V45                   | _        |
| Q506<br>Q507   |                              | TRANSISTOR 2S                                   |                 |                   | R545<br>R546 | 1-249-377-11<br>1-249-377-11 |                         | 0.47<br>0.47               | 5%<br>5%      | 1/4W I<br>1/4W I         |          |
| Q651           | 8-729-119-76                 | TRANSISTOR 2S                                   | A1175-HFE       |                   | R547         | 1-247-807-31                 |                         | 100                        | 5%            | 1/4W                     |          |
| Q652<br>Q653   |                              | TRANSISTOR 2S<br>TRANSISTOR 2S                  |                 |                   | R548<br>R549 | 1-249-413-11<br>1-247-863-91 |                         | 470<br>22 <b>K</b>         | 5%<br>5%      | 1/4W<br>1/4W             |          |
| -              |                              | TRANSISTOR 2S                                   |                 |                   | R550         | 1-247-807-31                 |                         | 100                        | 5%            | 1/4W                     |          |
| Q654<br>Q655   |                              | TRANSISTOR 2S                                   |                 |                   | R551         | 1-249-437-11                 |                         | 47K                        | 5%            | 1/4W                     |          |
| Q656           |                              | TRANSISTOR 25                                   |                 |                   | R552         | 1-247-807-31                 |                         | 100                        | 5%            | 1/4W<br>1/4W             |          |
| Q657<br>Q658   |                              | 5 TRANSISTOR 2S<br>5 TRANSISTOR 2S              |                 |                   | R553<br>R554 | 1-247-881-00<br>1-249-405-11 |                         | 120K<br>100                | 5%<br>5%      | 1/4W 1                   | F        |
| Q659           |                              | TRANSISTOR 2S                                   |                 |                   | R556         | 1-260-123-11                 | CARBON                  | 100K                       | 5%            | 1/2W                     |          |
| Q660           | 8-729-119-78                 | TRANSISTOR 2S                                   | C2785-HFE       |                   | R557         | 1-216-490-11                 | METAL OXIDE             | 39K                        | 5%            |                          | F        |
| Q661           |                              | RESERTANSISTOR 28 REPORT TRANSISTOR 28          |                 |                   | R558<br>R559 | 1-216-490-11                 | METAL OXIDE METAL OXIDE | 39K<br>39K                 | 5%<br>5%      |                          | F<br>F   |
| Q662<br>Q802   |                              | TRANSISTOR 2S                                   |                 |                   | R560         | 1-215-399-00                 |                         | 120                        | 1%            | 1/4W                     | -        |
| Q803           | 8-729-119-76                 | TRANSISTOR 2S                                   | A1175-HFE       |                   | HR561        | Δ                            | METAL                   |                            |               | 1/4W                     | 71 S     |
| Q804           | 8-729-119-78                 | TRANSISTOR 2S                                   | C2785-HFE       |                   | R563         | 1-249-429-11                 |                         | 10K                        | 5%            | 1/4W                     |          |
| Q805<br>Q809   |                              | RANSISTOR 28 REPORT TRANSISTOR 28               |                 |                   | R564<br>R565 | 1-260-131-11<br>1-247-807-31 |                         | 470K<br>100                | 5%<br>5%      | 1/2W<br>1/4W             |          |
| Q810           |                              | TRANSISTOR 2S                                   |                 |                   | R566         | 1-249-377-11                 |                         | 0.47                       | 5%            | 1/4W                     | F        |
|                |                              |   |                 |                   | R567         | 1-249-377-11                 | CARBON                  | 0.47                       | 5%            | 1/4W                     | F        |
|                |                              | <resistor></resistor>                           |                 |                   | R568         | 1-247-903-00                 | CARBON<br>METAL OXIDE   | 1M                         | 5%<br>5%      | 1/4W<br>3W               | F        |
| R501           | 1-249-421-11                 | CARBON  | 2.2K 5%         | 1/4W              | R569         |                              |                         |                            |               | (41T3:                   | 5)       |
| R502           | 1-215-879-11<br>1-247-843-11 | METAL OXIDE                                     | 47K 5% 3.3K 5%  | 1W F<br>1/4W      | R569         | 1-216-392-11                 | METAL OXIDE             | 1.8                        | 5%<br>(exc    | 3W ::<br>cept 41T3:      | F<br>(5) |
| R503<br>R504   | 1-247-843-11                 |   | 1.5K 5%         | 1/4W              | R570         | 1-215-910-00                 | METAL OXIDE             | 68                         | 5%            |                          | F        |
| R506           | 1-215-444-00                 | ) METAL   | 9.1K 1%         | 1/4W              | R571         | 1-249-422-11                 | CARBON                  | 2.7K                       | 5%            | 1/4W                     |          |
| R507           | 1-249-422-11                 | CARBON  | 2.7K 5%         | 1/4W              | R572         | 1-247-895-91                 | CARBON                  | 470K                       | 5%            | 1/4W                     |          |
| R508           | 1-260-337-11                 |   | 5.6K 5% 47K 5%  | 1/2W<br>1/4W      | R573<br>R574 | 1-249-430-11<br>1-249-429-11 |                         | 12 <b>K</b><br>10 <b>K</b> | 5%<br>5%      | 1/4W<br>1/4W             |          |
| R509<br>R510   | 1-249-437-11<br>1-215-919-11 | METAL OXIDE                                     |                 | 3W F              | R577         | 1-249-422-11                 |                         | 2.7K                       | 5%            | 1/4W                     |          |
| R511           | 1-215-919-1                  | METAL OXIDE                                     | 2.2K 5%         | 3W F              | R579         | 1-247-895-91                 | CARBON                  | 470K                       | 5%            | 1/4W                     |          |
| R512           | 1-216-482-1                  | METAL OXIDE                                     | 1.8K 5%         | 3W F              |              | 1-249-434-11                 | CARBON                  | 27K                        | 5%            | 1/4W                     |          |
| R513           | 1-249-424-1                  | I CARBON<br>METAL                               | 3.9K 5%         | 1/4W<br>1/4W      | R581         | 1-249-429-11<br>1-249-428-11 |                         | 10K<br>8.2K                | 5%<br>5%      | 1/4W<br>1/4W             |          |
| FIR514<br>R516 | 1-215-443-00                 | METAL   | 8.2K 1%         | 1/4W              | R583<br>R584 | 1-247-887-00                 |                         | 220K                       | 5%            | 1/4W                     |          |
| R517           | 1-215-449-0                  |   | 15K 1%          | 1/4W              | R585         | 1_216_400_11                 | METAL OXIDE             | 30K                        | 5%            | 3W                       | F        |
| R518           | 1-215-456-0                  | METAL   | 30K 1%          | 1/4W              | R586         | 1-260-292-11                 |                         | 1                          | 5%            | 1/2W                     | •        |
| R519           | 1-247-863-9                  |   | 22K 5%          | 1/4W              | R588         | 1-247-863-91                 |                         | 22K<br>220K                | 5%<br>5%      | 1/4W<br>1/4W             |          |
| R522<br>R523   | 1-249-428-1<br>1-249-437-1   |   | 8.2K 5% 47K 5%  | 1/4W<br>1/4W      | R589<br>R591 | 1-247-887-00<br>1-215-917-11 | METAL OXIDE             |                            | 5%            |                          | F        |
| R524           | 1-247-863-9                  |   | 22K 5%          | 1/4W              | 1            |                              | RESISTOR(SUI            |                            | e a appresse  | <b>998(8</b> 00), a 1 10 | 4400     |
| R525           | 1-249-405-1                  | 1 CARBON  | 100 5%          | 1/4W I            | R601<br>R602 | A 1-202-981-21               | WIREWOUND               | 0.82                       | . <b>A.C.</b> | % <b>ኃስህን</b> ****       |          |
| R528           | 1-215-910-0                  | METAL OXIDE                                     | 68 5%           | 3W I              | R608         | A 1-202-933-61               | FUSIBLE                 | 0.1                        | 10%           | 1/2W                     | *        |
| R530<br>R531   | 1-249-437-1<br>1-260-326-1   |   | 47K 5% 680 5%   | 1/4W<br>1/2W      | R609<br>R610 | 1-247-887-00<br>1-247-887-00 |                         | 220K<br>220K               | 5%<br>5%      | 1/4W<br>1/4W             |          |
| R532           | 1-260-313-5                  |   | 56 5%           | 1/2W              | 1            |                              | METAL OXIDE             | 22                         | 5%            | 1W                       | F        |
| R533           | 1-214-912-0                  | 0 METAL   | 91K 1%          | 1/2W              | R611<br>R612 | 1-247-887-00                 | CARBON                  | 220K                       | 5%            | 1/4W                     |          |
| R534           | 1-215-479-0                  | 0 METAL   | 270K 1%         | 1/4W              | R613         | 1-216-353-00                 | METAL OXIDE             |                            | 5%            | 1W<br>1/4W               | F        |
| R535<br>R536   | 1-247-887-0<br>1-249-377-1   |   | 220K 5% 0.47 5% | 1/4W<br>1/4W 1    | R614<br>R651 | 1-247-887-00<br>1-249-429-11 |                         | 220K<br>10K                | 5%<br>5%      | 1/4W<br>1/4W             |          |
| R537           |                              | 1 CARBON  | 4.7K 5%         |                   |              |                              |                         |                            |               |                          |          |
| R538           | 1-247-863-0                  | 1 CARBON  | 22K 5%          | 1/4W              | R652<br>R653 | 1-249-425-11<br>1-249-377-11 |                         | 4.7 <b>K</b><br>0.47       | 5%<br>5%      | 1/4W<br>1/4W             | F        |
| R539           | 1-249-377-1                  | 1 CARBON  | 0.47 5%         | 1/4W I            | R655         | 1-247-887-00                 | CARBON                  | 220K                       | 5%            | 1/4W                     |          |
| R540           | 1-249-377-1                  | 1 CARBON  | 0.47 5%         | 1/4W 1<br>(41T35  |              | 1-260-288-11<br>1-249-429-11 |                         | 0.47<br>10 <b>K</b>        | 5%<br>5%      | 1/2W<br>1/4W             |          |
|                |                              |   |                 | (7113.            | , 1007       | . m-/                        | . J J.                  |                            |               |                          |          |



|              |                              |   |                            |          |              |              |                              |             |              |          | <u> </u>     |
|--------------|------------------------------|---|----------------------------|----------|--------------|--------------|------------------------------|-------------|--------------|----------|--------------|
| REF. NO.     | PART NO.                     | DESCRIPTION                             |                            |          | REMARK       | REF. NO.     | PART NO.                     | DESCRIPTION |              |          | REMARK       |
| D. C. E. O.  | 1 040 417 11                 | CARRON                                  | 177                        | E 01     | 1 /4337      | D044         | 1 047 907 01                 | CARRON      | 100          | F.01     | 1 (4337      |
| R658<br>R660 | 1-249-417-11<br>1-249-413-11 |   | 1 <b>K</b><br>470          | 5%<br>5% | 1/4W<br>1/4W | R844         | 1-247-807-31                 | CARBON      | 100          | 5%       | 1/4W         |
| R661         | 1-249-417-11                 |   | 1K                         | 5%       | 1/4W F       | R845         | 1-249-441-11                 | CARBON      | 100K         | 5%       | 1/4W         |
| R662         | 1-249-425-11                 |   | 4.7K                       | 5%       | 1/4W         | R846         | 1-247-807-31                 |             | 100          | 5%       | 1/4W         |
| R664         | 1-249-425-11                 | CARBON                                  | 4.7K                       | 5%       | 1/4W         | R847         | 1-215-469-00                 |             | 100K         | 1%       | 1/4W         |
|              |                              |   |                            |          |              | R850         | 1-215-469-00                 |             | 100K         | 1%       | 1/4W         |
| R665         | 1-247-807-31                 |   | 100                        | 5%<br>5% | 1/4W<br>1/4W | R851         | 1-247-807-31                 | CARBON      | 100          | 5%       | 1/4W         |
| R667<br>R668 | 1-249-417-11<br>1-249-377-11 |   | 1K<br>0.47                 | 5%       | 1/4W F       | R852         | 1-247-807-31                 | CARRON      | 100          | 5%       | 1/4W         |
| R669         | 1-249-429-11                 |   | 10 <b>K</b>                | 5%       | 1/4W         | R853         | 1-247-887-00                 |             | 220K         | 5%       | 1/4W         |
| R672         | 1-249-421-11                 | CARBON                                  | 2.2K                       | 5%       | 1/4W         | R854         | 1-249-429-11                 | CARBON      | 10K          | 5%       | 1/4W         |
|              |                              |   | 4=0                        | -~       | 4 44***      | R855         | 1-247-815-91                 |             | 220          | 5%       | 1/4W         |
| R673<br>R675 | 1-249-413-11<br>1-215-417-00 |   | 470<br>680                 | 5%<br>1% | 1/4W<br>1/4W | R856         | 1-247-807-31                 | CARBON      | 100          | 5%       | 1/4W         |
| R676         |                              | METAL OXIDE                             | 1                          | 5%       | 2W F         | R857         | 1-247-807-31                 | CARRON      | 100          | 5%       | 1/4W         |
| R677         | 1-247-807-31                 |   | 100                        | 5%       | 1/4W         | R858         | 1-215-455-00                 |             | 27K          | 1%       | 1/4W         |
| R679         | 1-249-421-11                 | CARBON                                  | 2.2K                       | 5%       | 1/4W         | R859         | 1-215-455-00                 |             | 27K          | 1%       | 1/4W         |
| D <00        | 1 040 417 11                 | CARRON                                  | 177                        | e 01     | 1 /4557      | R860         | 1-215-455-00                 |             | 27K          | 1%       | 1/4W         |
| R680<br>R681 | 1-249-417-11<br>1-249-417-11 |   | 1 <b>K</b><br>1 <b>K</b>   | 5%<br>5% | 1/4W<br>1/4W | R861         | 1-215-455-00                 | METAL       | 27K          | 1%       | 1/4W         |
| R682         | 1-249-417-11                 |   | 1K                         | 5%       | 1/4W         | R862         | 1-215-455-00                 | METAL.      | 27K          | 1%       | 1/4W         |
| R683         | 1-249-417-11                 |   | 1K                         | 5%       | 1/4W         | R863         | 1-215-455-00                 |             | 27K          | 1%       | 1/4W         |
| R684         | 1-249-417-11                 | CARBON                                  | 1 <b>K</b>                 | 5%       | 1/4W         | R865         | 1-249-424-11                 |             | 3.9K         | 5%       | 1/4W         |
| T            |                              |   |                            |          | 4 (4***      | R867         | 1-215-461-00                 |             | 47K          | 1%       | 1/4W         |
| R686<br>R687 | 1-215-421-00<br>1-215-441-00 |   | 1K<br>6.8K                 | 1%<br>1% | 1/4W<br>1/4W | R868         | 1-215-445-00                 | METAL       | 10 <b>K</b>  | 1%       | 1/4W         |
| R688         | 1-215-481-00                 |   | 330K                       | 1%       | 1/4W<br>1/4W | R869         | 1-249-425-11                 | CARRON      | 4.7K         | 5%       | 1/4W         |
| R689         | 1-249-425-11                 |   | 4.7K                       | 5%       | 1/4W         | R871         | 1-249-417-11                 |             | 1K           | 5%       | 1/4W         |
| R690         | 1-249-417-11                 |   | 1 <b>K</b>                 | 5%       | 1/4W         | R872         | 1-249-425-11                 | CARBON      | 4.7K         | 5%       | 1/4W         |
|              |                              |   |                            | -~       |              | R873         | 1-247-807-31                 |             | 100          | 5%       | 1/4W         |
| R692         | 1-249-425-11                 |   | 4.7K                       | 5%       | 1/4W         | R874         | 1-249-429-11                 | CARBON      | 10 <b>K</b>  | 5%       | 1/4W         |
| R693<br>R695 | 1-249-429-11<br>1-247-807-31 |   | 10K<br>100                 | 5%<br>5% | 1/4W<br>1/4W | R875         | 1-249-441-11                 | CAPRON      | 100K         | 5%       | 1/4W         |
| R696         | 1-249-417-11                 |   | 1K                         | 5%       | 1/4W         | R879         | 1-215-444-00                 |             | 9.1K         | 1%       | 1/4W         |
| R697         | 1-249-417-11                 |   | îĸ                         | 5%       | 1/4W         | R880         | 1-259-878-11                 |             | 1.5M         | 5%       | 1/4W         |
|              |                              |   |                            |          |              | R881         | 1-249-408-11                 |             | 180          | 5%       | 1/4W         |
| R801         | 1-249-437-11                 |   | 47K                        | 5%       | 1/4W         | R882         | 1-215-445-00                 | METAL       | 10 <b>K</b>  | 1%       | 1/4W         |
| R803<br>R804 | 1-249-430-11<br>1-249-429-11 |   | 12 <b>K</b><br>10 <b>K</b> | 5%<br>5% | 1/4W<br>1/4W | R883         | 1-215-445-00                 | METAI       | 10 <b>K</b>  | 1%       | 1/4W         |
| R805         | 1-247-807-31                 |   | 100                        | 5%       | 1/4W<br>1/4W | R884         | 1-215-445-00                 |             | 10K          | 1%       | 1/4W         |
| R806         | 1-249-429-11                 |   | 10K                        | 5%       | 1/4W         | R885         | 1-249-441-11                 |             | 100K         | 5%       | 1/4W         |
|              |                              |   |                            |          |              | R886         | 1-249-428-11                 | CARBON      | 8.2K         | 5%       | 1/4W         |
| R807         | 1-247-807-31                 |   | 100                        | 5%       | 1/4W         | R887         | 1-247-807-31                 | CARBON      | 100          | 5%       | 1/4W         |
| R808<br>R809 | 1-249-429-11                 |   | 10K<br>4.7K                | 5%<br>5% | 1/4W<br>1/4W | R888         | 1 247 907 21                 | CARRON      | 100          | 5%       | 1/4W         |
| R810         | 1-249-425-11<br>1-247-807-31 |   | 100                        | 5%       | 1/4W<br>1/4W | R889         | 1-247-807-31<br>1-249-438-11 |             | 56K          | 5%       | 1/4W<br>1/4W |
| R811         | 1-247-807-31                 |   | 100                        | 5%       | 1/4W         | R890         | 1-249-441-11                 |             | 100K         | 5%       | 1/4W         |
|              |                              |   |                            |          |              | R891         | 1-249-429-11                 | CARBON      | 10K          | 5%       | 1/4W         |
| R812         | 1-249-429-11                 |   | 10K                        | 5%       | 1/4W         | R892         | 1-215-445-00                 | METAL       | 10K          | 1%       | 1/4W         |
| R813         | 1-249-429-11                 |   | 10 <b>K</b>                | 5%       | 1/4W         | DOO.E        | 1 040 401 11                 | CARRON      | 2 27         | E CI     | 1 /4337      |
| R814<br>R815 | 1-247-807-31<br>1-247-807-31 |   | 100<br>100                 | 5%<br>5% | 1/4W<br>1/4W | R895<br>R896 | 1-249-421-11<br>1-249-441-11 |             | 2.2K<br>100K | 5%<br>5% | 1/4W<br>1/4W |
| R816         | 1-247-807-31                 |   | 100                        | 5%       | 1/4W         | R897         | 1-247-807-31                 |             | 100          | 5%       | 1/4W         |
|              |                              |   | -55                        |          |              | R898         | 1-247-815-91                 |             | 220          | 5%       | 1/4W         |
| R817         | 1-247-807-31                 |   | 100                        | 5%       | 1/4W         | R899         | 1-247-815-91                 | CARBON      | 220          | 5%       | 1/4W         |
| R818         | 1-249-430-11                 |   | 12K                        | 5%       | 1/4W         | D001         | 1 040 400 11                 | CARRON      | 1077         | F.01     | 1 /4557      |
| R820<br>R821 | 1-249-429-11<br>1-249-428-11 |   | 10K<br>8.2K                | 5%<br>5% | 1/4W<br>1/4W | R901<br>R902 | 1-249-430-11<br>1-249-438-11 |             | 12K<br>56K   | 5%<br>5% | 1/4W<br>1/4W |
| R822         | 1-249-417-11                 |   | 1K                         | 5%       | 1/4W         | R903         | 1-215-421-00                 |             | 1K           | 1%       | 1/4W         |
|              |                              | • |                            | •        |              | R904         | 1-214-800-11                 | METAL       | 2.2          | 1%       | 1/2W         |
| R823         | 1-249-417-11                 |   | 1K                         | 5%       | 1/4W         | R905         | 1-214-800-11                 | METAL       | 2.2          | 1%       | 1/2W         |
| R824         | 1-215-462-00                 |   | 51K                        | 1%       | 1/4W         | B006         | 1 014 000 11                 | ACCTAT      |              | 1.01     | 1.0337       |
| R825<br>R826 | 1-249-441-11<br>1-215-462-00 |   | 100K<br>51K                | 5%<br>1% | 1/4W<br>1/4W | R906<br>R907 | 1-214-800-11<br>1-247-815-91 |             | 2.2<br>220   | 1%<br>5% | 1/2W<br>1/4W |
| R827         | 1-249-417-11                 |   | 1K                         | 5%       | 1/4W         | R908         | 1-247-815-91                 |             | 220          | 5%       | 1/4W         |
|              |                              |   |                            | •        |              | R909         | 1-215-421-00                 |             | 1K           | 1%       | 1/4W         |
| R828         | 1-249-426-11                 |   | 5.6K                       | 5%       | 1/4W         | R910         | 1-215-421-00                 | METAL       | 1 <b>K</b>   | 1%       | 1/4W         |
| R829         | 1-249-426-11                 |   | 5.6K                       | 5%       | 1/4W         | D011         | 1 015 455 00                 | METAL       | 0717         | 107      | 1 /4357      |
| R830<br>R831 | 1-249-414-11                 |   | 560<br>560                 | 5%<br>5% | 1/4W<br>1/4W | R911<br>R912 | 1-215-455-00<br>1-215-469-00 |             | 27K<br>100K  | 1%       | 1/4W<br>1/4W |
| R832         | 1-249-414-11<br>1-249-441-11 |   | 100K                       | 5%       | 1/4W<br>1/4W | R912         | 1-215-455-00                 |             | 27K          | 1%<br>1% | 1/4W<br>1/4W |
|              | // 11                        | J. 1110/11                              |                            | - /-     | • • •        | R914         | 1-215-455-00                 |             | 27K          | 1%       | 1/4W         |
| R833         | 1-249-417-11                 |   | 1 <b>K</b>                 | 5%       | 1/4W         | R915         | 1-215-455-00                 |             | 27K          | 1%       | 1/4W         |
| R834         | 1-249-441-11                 |   | 100K                       | 5%       | 1/4W         | D011         | 4 04 - 4                     |             |              |          | 4            |
| R835         | 1-249-441-11                 |   | 100K                       | 5%       | 1/4W         | R916         | 1-215-455-00                 |             | 27K          | 1%       | 1/4W         |
| R836<br>R837 | 1-247-807-31<br>1-249-441-11 |   | 100<br>100K                | 5%<br>5% | 1/4W<br>1/4W | R917<br>R918 | 1-215-455-00<br>1-215-455-00 |             | 27K<br>27K   | 1%<br>1% | 1/4W<br>1/4W |
| NOJ/         | 1-4-7-4-1-11                 | CARBUN                                  | 1001                       | J 70     | 11-4 AA      | R919         | 1-249-435-11                 |             | 33K          | 1%<br>5% | 1/4W<br>1/4W |
| R838         | 1-249-421-11                 | CARBON                                  | 2.2K                       | 5%       | 1/4W         | R920         | 1-214-800-11                 |             | 2.2          | 1%       | 1/2W         |
| R841         | 1-247-815-91                 | CARBON                                  | 220                        | 5%       | 1/4W         |              |                              |             |              |          |              |
| R842         | 1-247-807-31                 |   | 100                        | 5%       | 1/4W         | R921         | 1-249-431-11                 |             | 15K          | 5%       | 1/4W         |
| R843         | 1-247-807-31                 | CAKBON                                  | 100                        | 5%       | 1/4W         | R922         | 1-215-445-00                 | METAL       | 10 <b>K</b>  | 1%       | 1/4W         |



Les composants identifies par une trame et une marque A sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie

San Charles The componants identified by shading and mark ∆ are critical for safety.

Replace only with part number shading and mark A are critical for safety.

Replace only with part number specified

|              |                              |             |              |          |               | ì             | piece portant le n  |  | specified                                | ,                                       | × .            |
|--------------|------------------------------|-------------|--------------|----------|---------------|---------------|---|--|--|---|----------------|
| REF. NO.     | PART NO.                     | DESCRIPTION |              |          | REMARK        | REF. NO.      | PART NO.  | DESCRIPTION  | · 2. 177111111                           |   | REMARK         |
| R923         | 1-249-425-11                 | CARRON      | 4.7K         | 5%       | 1/4W          | R994          | 1-249-425-11  | CAPRON   | 4.7K                                     | 5%                                      | 1/4W           |
| R924         | 1-215-444-00                 |             | 9.1K         | 1%       | 1/4W          | R995          | 1-249-413-11  |  | 470                                      | 5%                                      | 1/4W           |
| R925         | 1-249-425-11                 |             | 4.7K         | 5%       | 1/4W          | R996          | 1-247-815-91  |  | 220                                      | 5%                                      | 1/4W           |
|              |                              |             |              |          |               | R997          | 1-215-445-00  |  | 10K                                      | 1%                                      | 1/4W           |
| R926         | 1-249-408-11                 |             | 180          | 5%       | 1/4W          | R998          | 1-249-434-11  | CARBON   | 27K                                      | 5%                                      | 1/4W           |
| R927         | 1-215-445-00                 |             | 10 <b>K</b>  | 1%       | 1/4W          |               |   |  |  |   |                |
| R928         | 1-215-445-00                 |             | 10 <b>K</b>  | 1%       | 1/4W          | R999          | 1-249-434-11  | CARBON   | 27K                                      | 5%                                      | 1/4W           |
| R929         | 1-214-800-11                 |             | 2.2          | 1%       | 1/2W          |               |   |  |  |   |                |
| R930         | 1-214-800-11                 | METAL       | 2.2          | 1%       | 1/2W          |               |   |  |  |   |                |
|              |                              |             |              |          |               | 1             |   | <relay></relay>  |  |   |                |
| R931         | 1-215-445-00                 |             | 10 <b>K</b>  | 1%       | 1/4W          |               |   |  |  |   |                |
| R933         | 1-215-453-00                 |             | 22K          | 1%       | 1/4W          | RY601 Z       | 11-755-018-11   | RELAY  | S. 11. 11. 11. 11. 11. 11. 11. 11. 11. 1 |   | 1. Microsol 24 |
| R934         | 1-249-429-11                 |             | 10K          | 5%       | 1/4W          | İ             |   |  |  |   |                |
| R935         | 1-249-429-11                 |             | 10K          | 5%       | 1/4W          |               |   |  |  |   |                |
| R936         | 1-249-429-11                 | CARBON      | 10 <b>K</b>  | 5%       | 1/4W          |               |   | <transforme< td=""><td>ER&gt;</td><td></td><td></td></transforme<> | ER>                                      |   |                |
| R937         | 1 240 425 11                 | CADDON      | 221          | E OI     | 1 /4337       |               | er androkkarara a   | Same a commercial comme  |  | outeren (allers ) and                   | Manager 2012   |
| R937<br>R938 | 1-249-435-11<br>1-215-421-00 |             | 33K          | 5%       | 1/4W          | 1301          | 1-43/-190-14  | TRANSFORMER  | C, HUKIZU                                | NIALL                                   | KIAR 💥         |
| R939         |                              |             | 1K           | 1%       | 1/4W          | 1 DUZ         | 11-421-211-11   | TRANSFORME   | C, PEKKI I                               | E(PMI)                                  | dinii (a)      |
| R939<br>R940 | 1-259-878-11                 |             | 1.5M         | 5%       | 1/4W          | T503          | 11-431-212-11   | TRANSFORME   | C HUKIZU                                 | NIALL                                   | INEAK          |
| R940<br>R941 | 1-249-441-11                 |             | 100K         | 5%       | 1/4W          | T504 d        | 11-439-438-11   | TRANSFORME   | (ASSI PI                                 | Y DALL                                  | Side Awards    |
| K941         | 1-249-441-11                 | CARBON      | 100K         | 5%       | 1/4W          | T504 A        | 2 482 230 13  | TO SECULORABIES  | X-400///X                                | 9A4) (CX                                | cept 41T35)    |
| R942         | 1-249-421-11                 | CADRON      | วาษ          | 5%       | 1/4W          | 7,1394 /4     | 1 1-433-640-11.   | TRANSFORMER  | (MOOI, PI                                | o i ii dana.<br>Paragrapa               | S. S. Samer    |
| R942<br>R943 | 1-249-421-11                 |             | 2.2K<br>100K | 5%<br>5% | 1/4W<br>1/4W  | 1             |   |  | W.A.F.                                   | n <i>ni III k</i> A                     | 143341133]     |
| R943         | 1-249-441-11                 |             | 100K         | 3%<br>1% | 1/4W<br>1/4W  | CTKNA XXXX    | ( T. H. T. T. K. K. K. T. T. T. T. T. T. T. T. T. T. T. T. T. | TRANSFORME   | "DOWNER                                  | 17. gl 1889                             | 8.3367° ×      |
| R945         | 1-249-429-11                 |             | 10K          | 5%       | 1/4 W<br>1/4W | TANA          | 12420.002   | TRANSFORMER  | CONTRE                                   |   | DTV            |
| R946         | 1-215-421-00                 |             | 10K          | 1%       | 1/4W          | TKO           | 1.420.006.11  | TRANSFORME   | CONVE                                    | ared in                                 |                |
| **>+0        | 1 213-721-00                 |             | 112          | 1 10     | *1.44         | TANK          | 12420-094-11  | TRANSFORME   | CONTR                                    | TED A                                   | *** (** * 33)  |
| R947         | 1-249-441-11                 | CARBON      | 100K         | 5%       | 1/4W          | 1003          | 11-123-200-11   |  |  |   | cept 41T35)    |
| R948         | 1-247-815-91                 |             | 220          | 5%       | 1/4W          | 10000 3000    | Management  |  | 1 1 11 1 1 1 1 1 1 1 1 1                 | \$1 <b>\$10.3</b> 4                     | welst ar r 25) |
| R949         | 1-247-807-31                 |             | 100          | 5%       | 1/4W          | •             |   | <thermistor:< td=""><td>_</td><td></td><td></td></thermistor:<>    | _  |   |                |
| R950         | 1-247-807-31                 |             | 100          | 5%       | 1/4W          |               |   | < I III.KWII J I OK.   |  |   |                |
| R951         | 1-247-807-31                 |             | 100          | 5%       | 1/4W          | TH801         | 1-808-269-11  | THERMISTOR   |  |   |                |
| 11,51        | 1 247 007 51                 | CHILDON     | 100          | 5 70     | 11411         | 111001        | 1-000-209-11  | THERMISTOR   |  |   |                |
| R952         | 1-247-807-31                 | CARBON      | 100          | 5%       | 1/4W          | İ             |   |  |  |   |                |
| R953         | 1-247-863-91                 |             | 22K          | 5%       | 1/4W          | •             |   |  |  |   |                |
| R954         | 1-215-433-00                 |             | 3.3K         | 1%       | 1/4W          | *******       | ******  | ******   | ******                                   | *****                                   | *****          |
| R955         | 1-215-433-00                 |             | 3.3K         | 1%       | 1/4W          |               |   |  |  |   |                |
| R956         | 1-249-429-11                 |             | 10K          | 5%       | 1/4W          | ,             | A-1331-670-A  | CR BOARD, C  | OMPLETE                                  |   |                |
|              |                              |             |              |          | -, -, -,      |               | 11 1001 0,01.   | *********  |  |   |                |
| R957         | 1-214-800-11                 | METAL       | 2.2          | 1%       | 1/2W          | į             |   |  |  |   |                |
| R958         | 1-214-800-11                 | METAL       | 2.2          | 1%       | 1/2W          |               | 7-322-065-19  | RUBBER, SILIC  | ON RTV (I                                | <b>CE490W</b>                           | )              |
| R959         | 1-215-433-00                 | METAL       | 3.3K         | 1%       | 1/4W          | 1             |   |  |  |   | ,              |
| R961         | 1-249-425-11                 | CARBON      | 4.7K         | 5%       | 1/4W          | İ             |   |  |  |   |                |
| R962         | 1-214-800-11                 | METAL       | 2.2          | 1%       | 1/2W          | •             |   | <capacitor></capacitor>  |  |   |                |
|              |                              |             |              |          |               |               |   |  |  |   |                |
| R963         | 1-214-800-11                 |             | 2.2          | 1%       | 1/2W          | C702          | 1-101-880-00  |  | 47PF                                     | 5%                                      | 50V            |
| R964         | 1-215-433-00                 |             | 3.3K         | 1%       | 1/4W          | C703          | 1-104-664-11  |  | 47MF                                     | 20%                                     | 25V            |
| R965         | 1-215-433-00                 |             | 3.3K         | 1%       | 1/4W          | C704          | 1-126-964-11  |  | 10 <b>MF</b>                             | 20%                                     | 50V            |
| R966         | 1-247-815-91                 |             | 220          | 5%       | 1/4W          | C705          | 1-161-754-00  |  | 0.001MF                                  | 10%                                     | 2KV            |
| R967         | 1-215-455-00                 | METAL       | 27K          | 1%       | 1/4W          | C706          | 1-126-934-11  | ELECT  | 220MF                                    | 20%                                     | 16 <b>V</b>    |
| <b>D</b> 040 | 1 015 455 00                 | 3 67700 A T |              |          | 4 44***       |               |   |  |  |   |                |
| R968         | 1-215-455-00                 |             | 27K          | 1%       | 1/4W          | C707          | 1-107-504-11  |  | 10PF                                     | 0.5PF                                   | 500V           |
| R969         | 1-215-455-00                 |             | 27K          | 1%       | 1/4W          | C708          | 1-102-050-00  |  | 0.01MF                                   | 10~                                     | 500V           |
| R970         | 1-215-455-00                 |             | 27K          | 1%       | 1/4W          | C709          | 1-162-115-00  |  | 330PF                                    | 10%                                     | 2KV            |
| R971         | 1-215-455-00                 |             | 27K          | 1%       | 1/4W          | C712          | 1-107-662-11  | ELECT  | 22MF                                     | 20%                                     | 250V           |
| R972         | 1-215-455-00                 | NICIAL      | 27K          | 1%       | 1/4W          | 1             |   |  |  |   |                |
| R973         | 1-214-800-11                 | METAT       | 2.2          | 1 at.    | 1/237         | 1             |   | CONNECTOR  |  |   |                |
| R973<br>R974 | 1-214-800-11                 |             | 2.2          | 1%       | 1/2W<br>1/4W  | 1             |   | <connector></connector>  | •  |   |                |
| R974<br>R975 | 1-213-463-00                 |             | 56K<br>2.2   | 1%<br>1% | 1/4W<br>1/2W  | CN701         | 1_605 015 11  | TAB (CONTACT   | ~  |   |                |
| R976         | 1-215-433-00                 |             | 3.3K         | 1%       | 1/2 W<br>1/4W |               |   |  |  |   |                |
| R977         | 1-247-815-91                 |             | 220          | 5%       | 1/4W<br>1/4W  |               |   | PLUG, CONNEC   |  |   |                |
| 2011         | ~ ~~ (-U1J-71                | O' INDOM    | 220          | 5 70     | 4177          |               |   | PIN, CONNECTO  |  | ITCU\ 1                                 | D              |
| R978         | 1-215-445-00                 | METAI.      | 10K          | 1%       | 1/4W          | CNTO          | 1-251219921   | SOCKET, PICTU  | ンベ (Simili P                             | TOTAL                                   | •<br>•         |
| R979         | 1-249-425-11                 |             | 4.7K         | 5%       | 1/4 W<br>1/4W | ************* |   |  | **********                               | · ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | 4000 x x x x   |
| R980         | 1-247-815-91                 |             | 220          | 5%       | 1/4W          | CN706 4       | 1.564.512.11  | PLUG, CONNEC   | TOP OP                                   |   |                |
| R981         | 1-247-815-91                 |             | 220          | 5%       | 1/4W          |               | 1-307-312-11  | LLOO, COMMEC   | I ON JE                                  |   |                |
| R982         | 1-247-895-91                 |             | 470K         | 5%       | 1/4W          | İ             |   |  |  |   |                |
|              | 2 2 . 7 G/J-/I               |             | .,,,,,,      | 2 10     | 47.77         | 1             |   | <diode></diode>  |  |   |                |
| R983         | 1-247-815-91                 | CARBON      | 220          | 5%       | 1/4W          |               |   |  |  |   |                |
| R984         | 1-215-444-00                 |             | 9.1K         | 1%       | 1/4W          | D701          | 8-719-991-33  | DIODE 1SS133T  | -77                                      |   |                |
| R985         | 1-215-445-00                 |             | 10K          | 1%       | 1/4W          | D702          | 8-719-901-33  | DIODE 1SS133T  | -77                                      |   |                |
| R987         | 1-249-408-11                 |             | 180          | 5%       | 1/4W          | D703          |   | DIODE 1SS133T  |  |   |                |
| R988         | 1-215-445-00                 |             | 10 <b>K</b>  | 1%       | 1/4W          | D704          |   | DIODE 1SS133T  |  |   |                |
|              | 30                           |             |              | - ,-     | -, - **       | D705          |   | DIODE MTZJ-T-  |  |   |                |
| R989         | 1-249-425-11                 | CARBON      | 4.7K         | 5%       | 1/4W          | 55            | > 20 00   |  |  |   |                |
| R990         | 1-249-429-11                 |             | 10K          | 5%       | 1/4W          | D706          | 8-719-923-86  | DIODE MTZJ-T-  | 77-15                                    |   |                |
| R991         | 1-249-429-11                 |             | 10K          | 5%       | 1/4W          | D708          |   | DIODE RD10ESI  |  |   |                |
| R992         | 1-259-878-11                 |             | 1.5M         | 5%       | 1/4W          | D709          |   | DIODE RD5.6ES  |  |   |                |
| R993         | 1-249-425-11                 |             | 4.7K         | 5%       | 1/4W          | D710          |   | DIODE 1SS133T  |  |   |                |
|              |                              |             | -            | •        |               |               |   |  | •  |   |                |
|              |                              |             |              |          |               | 1             |   |  |  |   |                |
|              |                              |             |              |          |               |               |   |  |  |   |                |

The components dentified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque \( \Lambda \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



| specified.           |  |                                | ant le numero      |                   |                      |                      | •  |   |                            |               |                     |
|----------------------|--|--------------------------------|--------------------|-------------------|----------------------|----------------------|--|---|----------------------------|---------------|---------------------|
| REF. NO.             | PART NO.                                     | DESCRIPTION                    |                    |                   | EMARK                | REF. NO.             | PART NO.                                     | DESCRIPTION   |                            |               | REMARK              |
| IC701                | 8-759-434-39                                 | <ic></ic>                      |                    |                   |                      | D731<br>D732<br>D733 | 8-719-991-33                                 | DIODE 1SS133T<br>DIODE 1SS133T<br>DIODE RD10ESI                 | -77                        |               |                     |
|                      |  | <coil></coil>                  |                    |                   |                      |                      |  | <ic></ic>   |                            |               |                     |
| L701                 | 1-408-429-00                                 | INDUCTOR 470                   | UH                 |                   |                      | IC731                | 8-759-434-39                                 | IC TDA6106Q   |                            |               |                     |
|                      |  | <neon lamp=""></neon>          |                    |                   |                      |                      |  | <coil></coil>   |                            |               |                     |
| NL701                | 1-519-108-99                                 | LAMP, NEON                     |                    |                   |                      | L731                 | 1-408-429-00                                 | INDUCTOR 4701   | UH                         |               |                     |
|                      |  | ·                              |                    |                   |                      |                      |  | _   |                            |               |                     |
| 0701                 | 0 500 110 50                                 | <transistor></transistor>      |                    | <b></b>           |                      | NT 721               | 1 510 100 00                                 | <neon lamp=""></neon>   |                            |               |                     |
| Q701<br>Q702         |  | TRANSISTOR 25                  |                    |                   |                      | NL731                | 1-519-108-99                                 | LAMP, NEON  |                            |               |                     |
|                      |  | <resistor></resistor>          |                    |                   |                      |                      |  | <resistor></resistor>   |                            |               |                     |
| R701                 |  | RESISTOR (SUR                  | GE RESIST          | Γ <b>ANT</b> ) 10 | 00                   | R731<br>R732         | 1-219-743-11<br>1-260-132-11                 | RESISTOR (SUR CARBON  | GE RESIS'<br>560K          | ΓΑΝΤ) :<br>5% | 100<br>1/2W         |
| R702<br>R703         | 1-215-425-00<br>1-215-437-00                 |                                | 1.5K<br>4.7K       | 1%<br>1%          | 1/4W<br>1/4W         | R733<br>R735         | 1-215-421-00<br>1-249-441-11                 | CARBON  | 1 <b>K</b><br>100 <b>K</b> | 1%<br>5%      | 1/4W<br>1/4W        |
| R704<br>R705         | 1-260-132-11<br>1-215-424-00                 |                                | 560K<br>1.3K       | 5%<br>1%          | 1/2W<br>1/4W         | R736                 | 1-215-430-00                                 | METAL   | 2.4K                       | 1%            | 1/4W                |
| R706                 | 1-215-437-00                                 | METAL                          | 4.7K               | 1%                | 1/4W                 | R737<br>R738         | 1-260-101-11<br>1-215-903-11                 | CARBON<br>METAL OXIDE   | 1.5K<br>68K                | 5%<br>5%      | 1/2W<br>2W F        |
| R707<br>R708         | 1-249-435-11<br>1-215-428-00                 |                                | 33K<br>2K          | 5%<br>1%          | 1/4W<br>1/4W         | R739<br>R740         | 1-260-133-11<br>1-260-099-11                 |   | 680K<br>1K                 | 5%<br>5%      | 1/2W<br>1/2W        |
| R709<br>R710         | 1-260-101-11<br>1-215-903-11                 | CARBON<br>METAL OXIDE          | 1.5K<br>68K        | 5%<br>5%          | 1/2W<br>2W F         | R741                 | 1-215-435-00                                 |   | 3.9K                       | 1%            | 1/4W                |
| R711                 | 1-249-435-11                                 |                                | 33K                | 5%                | 1/4W                 | R742<br>R743         | 1-247-885-00<br>1-247-807-31                 |   | 180K<br>100                | 5%<br>5%      | 1/4W<br>1/4W        |
| R712<br>R713         | 1-247-807-31<br>1-249-437-11                 | CARBON                         | 100<br>47 <b>K</b> | 5%<br>5%          | 1/4W<br>1/4W         |                      |  |   |                            |               |                     |
| R714<br>R715         | 1-260-099-11<br>1-260-133-11                 |                                | 1K<br>680K         | 5%<br>5%          | 1/2W<br>1/2W         | 50721                | 1 510 400 11                                 | <spark gap=""></spark>  |                            |               |                     |
| R717<br>R718<br>R719 | 1-249-417-11<br>1-247-807-31<br>1-260-087-11 | CARBON                         | 1K<br>100<br>100   | 5%<br>5%<br>5%    | 1/4W<br>1/4W<br>1/2W | SG731<br>SG732       |  | GAP, SPARK<br>GAP, SPARK  |                            |               |                     |
|                      |  | <spark gap=""></spark>         |                    |                   |                      | *******              | ******                                       | *********   | ******                     | ******        | *******             |
| SG701                | 1-519-422-11                                 | GAP, SPARK                     |                    |                   |                      |                      | * A-1331-672-A                               | CB BOARD, CO  | OMPLETE                    | *             |                     |
| SG702                | 1-519-422-11                                 | GAP, SPARK                     |                    |                   |                      |                      | 7-322-065-19                                 | RUBBER, SILIC   | ON RTV (F                  | Œ490W         | )                   |
| ******               | ******                                       | *******                        | *****              | ******            | ******               |                      |  | <capacitor></capacitor>   |                            |               |                     |
|                      | * A-1331-671-A                               | CG BOARD, C                    | OMPLETE            | *                 |                      | C762<br>C763         | 1-101-880-00<br>1-161-754-00                 |   | 47PF<br>0.001MF            | 5%<br>10%     | 50V<br>2KV          |
|                      | 7-322-065-19                                 | RUBBER, SILIC                  | ON RTV (K          | Œ490W)            |                      | C765<br>C766<br>C767 | 1-102-050-00<br>1-162-115-00<br>1-107-662-11 | CERAMIC   | 0.01MF<br>330PF<br>22MF    | 10%<br>20%    | 500V<br>2KV<br>250V |
|                      |  | <capacitor></capacitor>        |                    |                   |                      |                      |  | <connector></connector>   |                            |               |                     |
| C732<br>C733         | 1-101-880-00<br>1-161-754-00                 |                                | 47PF<br>0.001MF    | 5%<br>10%         | 50V<br>2KV           | CN761                | 1-695-915-11                                 | TAB (CONTACT  |                            |               |                     |
| C735<br>C736         | 1-102-050-00<br>1-162-115-00                 |                                | 0.01MF<br>330PF    | 10%               | 500V<br>2KV          |                      |  | PLUG, CONNECTO  |                            | ITCH) 1       | P                   |
| C737                 | 1-107-662-11                                 |                                | 22MF               | 20%               | 250V                 | CN764 Z              | 6 1-251-182-11                               | SOCKET, PICTU<br>PLUG, CONNEC                                   | RE TUBE                    |               |                     |
|                      |  | <connector></connector>        | •                  |                   |                      |                      |  | PLUG, CONNEC  |                            |               |                     |
| CN731                |  | TAB (CONTACT                   |                    |                   |                      |                      |  | ∠DIODE\   |                            |               |                     |
| CN732<br>CN733       | *1-564-507-11                                | PLUG, CONNEC                   | TOR 4P             | ITCU\ 11          | <b>5</b>             | D761                 | 9.710 001 22                                 | <diode 199122t<="" td=""><td>-77</td><td></td><td></td></diode> | -77                        |               |                     |
|                      |  | PIN, CONNECTO<br>SOCKET, PICTU |                    |                   |                      | D761<br>D762         | 8-719-923-86                                 | DIODE 1SS133T<br>DIODE MTZJ-T-                                  | 77-15                      |               |                     |
|                      |  | PLUG, CONNEC                   |                    |                   |                      | D763<br>D764         |  | DIODE RD10ES<br>DIODE MTZJ-T-                                   |                            |               |                     |
| J                    |  | ,                              |                    |                   |                      |                      |  |   |                            |               |                     |

# CB HA ZR ZG

| REF. NO.                         | PART NO.   | DESCRIPTION   |                                  |                        | REMARK                   | REF. NO.                                       | PART NO.   | DESCRIPTION  |                             | Ī                    | REMARK                       |
|----------------------------------|--|---|----------------------------------|------------------------|--------------------------|--|--|--|-----------------------------|----------------------|------------------------------|
|                                  |  | <ic></ic>   |                                  |                        |                          |  |  | <jack></jack>  |                             |                      |                              |
| IC761                            | 8-759-434-39   | IC TDA6106Q   |                                  |                        |                          | J1301  | 1-770-361-11   | TERMINAL BLO   | OCK, S                      |                      |                              |
|                                  |  | <coil></coil>   |                                  |                        |                          | 1  |  | <resistor></resistor>  |                             |                      |                              |
| L761                             | 1-408-429-00   | INDUCTOR 470  |                                  |                        |                          | R1301<br>R1302<br>R1303<br>R1304               | 1-249-425-11<br>1-249-416-11<br>1-249-417-11<br>1-249-425-11 | CARBON<br>CARBON   | 4.7K<br>820<br>1K<br>4.7K   | 5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W |
| NL761                            | 1-519-108-99   | LAMP, NEON  |                                  |                        |                          | R1305  | 1-247-815-91   |  | 220                         | 5%                   | 1/4W                         |
|                                  |  | <resistor></resistor>   |                                  |                        |                          | R1306<br>R1307<br>R1308<br>R1309               | 1-247-815-91<br>1-249-420-11<br>1-247-895-91<br>1-247-895-91 | CARBON<br>CARBON   | 220<br>1.8K<br>470K<br>470K | 5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W |
| R761<br>R762                     | 1-219-743-11<br>1-260-132-11                                 | RESISTOR (SUR   | RGE RESIS                        | TANT) 1<br>5%          | 100<br>1/2W              | R1310  | 1-249-429-11   |  | 10K                         | 5%                   | 1/4W                         |
| R763<br>R764<br>R765             | 1-215-420-00<br>1-249-426-11<br>1-215-430-00                 | METAL<br>CARBON   | 910<br>5.6K<br>2.4K              | 1%<br>5%<br>1%         | 1/4W<br>1/4W<br>1/4W     | R1311<br>R1312<br>R1314<br>R1315               | 1-247-804-11<br>1-247-804-11<br>1-247-807-31<br>1-247-804-11 | CARBON<br>CARBON   | 75<br>75<br>100<br>75       | 5%<br>5%<br>5%<br>5% | 1/4W<br>1/4W<br>1/4W<br>1/4W |
| R766<br>R767                     | 1-260-101-11<br>1-215-903-11                                 | CARBON<br>METAL OXIDE   | 1.5K<br>68K                      | 5%<br>5%               | 1/2W<br>2W F             |  |  |  |                             | •                    |                              |
| R768<br>R769                     | 1-260-133-11<br>1-260-099-11                                 | CARBON  | 680K<br>1K                       | 5%<br>5%               | 1/2W<br>1/2W             | <b>!</b>                                       |  | <switch></switch>  |                             |                      |                              |
| R770<br>R771                     | 1-247-807-31<br>1-260-087-11                                 | CARBON  | 100                              | 5%<br>5%               | 1/4W<br>1/2W             | \$1301<br>\$1302<br>\$1303<br>\$1304<br>\$1305 | 1-572-198-11<br>1-572-198-11<br>1-572-198-11                 | SWITCH, KEYB<br>SWITCH, KEYB<br>SWITCH, KEYB<br>SWITCH, KEYB<br>SWITCH, KEYB | OARD<br>OARD<br>OARD        |                      |                              |
|                                  |  | <spark gap=""></spark>  |                                  |                        |                          | S1306  |  | SWITCH, KEYB   |                             |                      |                              |
| SG761<br>SG762                   |  | GAP, SPARK<br>GAP, SPARK                                      |                                  |                        |                          | \$1307   |  | SWITCH, KEYB   |                             |                      |                              |
| ****                             |  | *******   |                                  | ****                   |                          | *******  | ******   | ******   | *****                       | *****                | ******                       |
| *******                          |  | HA BOARD, C   | OMPLETE                          | ,                      |                          | # 1  | * A-1390-682-A   | ZR BOARD, CO   |                             |                      |                              |
|                                  |  | <capacitor></capacitor>                                       |                                  |                        |                          |  |  | <connector></connector>  | •                           |                      |                              |
| C1301<br>C1302<br>C1304<br>C1305 | 1-137-399-11<br>1-126-959-11<br>1-126-964-11<br>1-137-399-11 | ELECT<br>ELECT<br>FILM  | 0.1MF<br>0.47MF<br>10MF<br>0.1MF | 5%<br>20%<br>20%<br>5% | 50V<br>50V<br>50V<br>50V | CN1403<br>CN1404                               | * 1-564-506-11<br>* 1-564-507-11                             | PLUG, CONNEC<br>PLUG, CONNEC<br>PLUG, CONNECTO                               | TOR 3P<br>TOR 4P            | ARD) 4F              | •                            |
| C1306                            | 1-126-964-11   |   | 10MF                             | 20%                    | 50V                      | i<br>!<br>!                                    |  | <connector></connector>  | •                           |                      |                              |
| C1307                            | 1-126-964-11   | ELECI   | 10MF                             | 20%                    | 50V                      | DY1401   | 1-451-454-11   | DEFLECTION Y   | OKE                         |                      |                              |
|                                  |  | <connector></connector>                                       | •                                |                        |                          |  |  | <resistor></resistor>  |                             |                      |                              |
| CN1302                           | *1-564-526-11  | PLUG, CONNEC<br>PLUG, CONNEC<br>PLUG, CONNEC                  | CTOR 11P                         |                        |                          | R1401<br>R1402<br>R1415                        |  | CARBON<br>METAL OXIDE  |                             | 5%<br>5%<br>5%       | 1/4W<br>1/4W<br>3W F         |
|                                  |  | <diode></diode>   |                                  |                        |                          | R1418  | 1-210-4/5-11   | METAL OXIDE  | 120                         | 5%                   | 3W F                         |
| D1301<br>D1302<br>D1303<br>D1304 | 8-719-110-17<br>8-719-110-17                                 | DIODE RD10ES<br>DIODE RD10ES<br>DIODE RD10ES<br>DIODE SLR-325 | B2<br>B2                         |                        |                          |  |  | ****************************   |                             | ******               | *****                        |
| D1305                            |  | DIODE SLR-325   |                                  |                        |                          |  | 31 1070 000 P  | ********   |                             |                      |                              |
| D1306<br>D1307<br>D1308          | 8-719-110-17   | DIODE RD10ES<br>DIODE RD10ES<br>DIODE RD10ES                  | B2                               |                        |                          |  | 4-382-854-11   | SCREW (M3X10   | ), P, SW (+                 | )                    |                              |
|                                  |  | AIC>  |                                  |                        |                          | C1433  | 1104.000.11  | <capacitor></capacitor>  | 0.11400                     | 100                  | 2007/                        |
| IC1301                           | 8-741-780-51   | <ic> IC SBX1780-51</ic>                                       |                                  |                        |                          | C1434<br>C1435                                 | 1-104-999-11<br>1-106-383-00<br>1-107-667-11                 | MYLAR  | 0.1MF<br>0.047MF<br>2.2MF   | 10%<br>10%<br>20%    | 200V<br>200V<br>160V         |

The componants identified by shading and mark  $\Delta$  are critical for safety
Replace only with part number specified.

Les composants identifies par une trame et une marque \( \Lambda \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



| specified.     |                              |                                | ant le numero     |            | X.             |                |   |                               |                    |                             |  |             |
|----------------|------------------------------|--------------------------------|-------------------|------------|----------------|----------------|---|-------------------------------|--------------------|-----------------------------|--|-------------|
| REF. NO.       | PART NO.                     | DESCRIPTION                    |                   |            | REMARK         | REF. NO.       | PART NO.                                | DESCRIPTION                   |                    |                             | REMAI                                  | RK          |
| C1438          | 1-106-383-00                 |                                | 0.047MF           |            | 200V<br>500V   | R1461          | 1-249-414-11                            | CARBON                        | 560                | 5%                          | 1/4W                                   | 7           |
| C1439<br>C1440 | 1-161-830-00<br>1-126-933-11 |                                | 0.0047MF<br>100MF | 20%        | 16V            | R1462          | 1-249-414-11                            | CARBON                        | 560                | 5%                          | 1/4W                                   | 7           |
| C1441          | 1-102-074-00                 | CERAMIC                        | 0.001MF           | 10%        | 50V            | R1463          | 1-249-399-11                            |                               | 33                 | 5%                          | 1/4W                                   |             |
| C1443          | 1-126-935-11                 | ELECT                          | 470MF             | 20%        | 16V            | R1465<br>R1466 |   | METAL OXIDE METAL OXIDE       |                    | 5%<br>5%                    | 3W<br>3W                               | F<br>F      |
| C1444<br>C1445 | 1-107-639-11<br>1-126-933-11 |                                | 47MF<br>100MF     | 20%<br>20% | 160V<br>16V    | İ              |   |                               |                    |                             |  |             |
| C1446          | 1-126-933-11                 |                                | 100MF             | 20%        | 16V            | ******         | ******                                  | ******                        | *******            | ****                        | ******                                 | ***         |
|                |                              |                                |                   |            |                |                |   | MISCELLANEO                   |                    |                             |  |             |
|                |                              | <connector></connector>        |                   |            |                |                | *************************************** |                               |                    |                             |  |             |
|                |                              | PLUG, CONNEC                   |                   |            |                | 195/900000     |   | COUPLER (R) A                 |                    |                             | ************************************** | T35)        |
|                |                              | PLUG, CONNECT                  |                   | ADD) di    | D              |                | <b>≜ A-1501-088-</b> 7                  | ACOUPLER (B) A                | SSY, PICT          | URE 1                       | UBE                                    | T351        |
|                |                              | PIN, CONNECTO<br>PLUG, CONNEC  |                   | ARD) 4     | r              |                | & A-1501-169-7                          | ACOUPLER (G) A                | SSY, PICT          | TURE!                       | UBE                                    |             |
| CN1462         | *1-564-507-11                | PLUG, CONNEC                   | TOR 4P            |            |                |                | A 1-223-025-12                          | RESISTOR ASS                  | Y (HIGH-V          | OLTA                        |  | T35)        |
|                |                              | PLUG, CONNEC                   |                   |            |                |                | <u> </u>                                | DEFLECTION Y                  | OKE (R) (          | G)                          |  |             |
|                |                              |                                |                   |            |                |                | Δ 1-451-455-21                          | DEFLECTION Y                  | OKE (B)            |                             | 275                                    |             |
|                |                              | <diode></diode>                |                   |            |                |                | 1-452-790-21<br>1-452-909-11            | NECK ASSY<br>MAGNET ASSY      | . 4 POLE           | ********                    |  |             |
| D1431          |                              | DIODE RD39ES                   |                   |            |                |                | 1-505-378-11                            | SPEAKER (10C)                 | Ń) (41T35)         |                             | <b>~</b> \                             |             |
| D1432<br>D1433 |                              | DIODE RD39EST<br>DIODE 1SS133T |                   |            |                |                | 1-303-420-11                            | SPEAKER (10.60                | CM) (excep         | X 4113                      | 3)                                     |             |
|                |                              |                                |                   |            |                |                | 1-556-945-21<br>*1-557-056-41           | CABLE, P-P                    |                    |                             |  |             |
|                |                              | <connector></connector>        | •                 |            |                |                | <b>∆1-769-837-11</b>                    | CORD, POWER                   |                    | ISE FU                      | LTER) %                                | i dilik     |
| DY1431         | 1-451-454-11                 | DEFLECTION Y                   | OKE               |            |                |                |   | CONNECTOR A                   |                    | OUNT                        |  |             |
|                |                              |                                |                   |            |                |                |   |                               |                    |                             | (41                                    | (T35)       |
|                |                              | <coil></coil>                  |                   |            |                |                |   | ANTENNA SWI<br>BLOCK ASSY. I  |                    |                             |  |             |
| L1431          |                              | INDUCTOR 47U                   |                   |            |                |                |   | PICTURE TUBE                  | 07MAC3(            | B) (CC                      | NG NEC                                 | <b>(X</b> ) |
| L1432          | 1-410-478-11                 | INDUCTOR 47U                   | Н                 |            |                | 2              | <b>∆</b> 8-733-498-05                   | PICTURE TUBE                  | 07MAC3(            | R)(CO                       | 8V45/53<br>NG NEC                      | K)          |
|                |                              | <transistor></transistor>      |                   |            |                | 70             | A 8.733.507.05                          | PICTURE TUBE                  |                    |                             | 8V45/53<br>/451                        |             |
| 01.401         | 0 700 017 06                 |                                |                   |            |                |                |   |                               |                    |                             |  |             |
| Q1431<br>Q1432 | 8-729-017-05                 | TRANSISTOR 2                   | SA1837            |            |                |                | 6.8-733-494-05                          | PICTURE TUBE PICTURE TUBE     | 07MAC4             | G) (G(                      | (43)                                   |             |
| Q1433<br>O1434 |                              | TRANSISTOR 2                   |                   |            |                |                | and the second                          |                               | <i>1007</i> . Sala | (                           | except 41                              | (T35)       |
| Q1435          |                              | TRANSISTOR 2                   |                   |            |                | *****          | ****                                    | ****                          |                    | le sile sile sile sile sile | ****                                   | ****        |
| Q1436          | 8-729-119-78                 | TRANSISTOR 2                   | SC2785-HF         | Œ          |                |                |   |                               |                    | - 4 - 6                     |  |             |
|                |                              |                                |                   |            |                |                |   | ES AND PACKIN                 |                    |                             |  |             |
|                |                              | <resistor></resistor>          |                   |            |                |                | 3-859-371-11                            | MANUAL, INST                  | RUCTION            | I (41T3                     | 5)                                     |             |
| R1431          | 1-249-414-11                 |                                | 560               | 5%         | 1/4W           |                | 3-860-212-11                            | MANUAL, INST                  | RUCTION            |                             |  | )           |
| R1432<br>R1435 | 1-249-414-11<br>1-215-908-00 | METAL OXIDE                    | 560<br>33         | 5%<br>5%   | 1/4W<br>3W F   | ,              |   | BOARD, TOP (4<br>SHEET, PROTE |                    | T35)                        |  |             |
| R1436          | 1-216-475-11                 | METAL OXIDE                    | 120               | 5%<br>5%   | 3W F<br>1/4W   |                |   | BAG, PROTECT                  |                    |                             | 45)                                    |             |
| R1437          | 1-249-414-11                 |                                | 560               |            |                | •              |   | BAG, POLYETH                  |                    |                             |  |             |
| R1438<br>R1439 | 1-249-432-11<br>1-249-432-11 |                                | 18K<br>18K        | 5%<br>5%   | 1/4W<br>1/4W   | ļ              |   | SHEET, PROTECT PLATE, TOP (61 |                    | cept 41                     | 135)                                   |             |
| R1440          | 1-249-414-11                 | CARBON                         | 560               | 5%         | 1/4W F         | ·              | * 4-047-774-01                          | PLATE, TOP (53                | V45)               |                             |  |             |
| R1441<br>R1442 | 1-249-417-11<br>1-247-815-91 |                                | 1K<br>220         | 5%<br>5%   | 1/4W<br>1/4W   |                | *4-049-155-01                           | BAG, PROTECT                  | ION (41T3          | 35)                         |  |             |
|                |                              |                                |                   |            |                |                |   | INDIVIDUAL C                  |                    |                             |  |             |
| R1443<br>R1445 | 1-249-377-11<br>1-249-403-11 |                                | 0.47<br>68        | 5%<br>5%   | 1/4W F<br>1/4W | ·              |   | CUSHION (UPP<br>CUSHION (LOV  |                    |                             |  |             |
| R1445<br>R1448 | 1-249-403-11                 |                                | 820               | 5%<br>5%   | 1/4W<br>1/4W   |                |   | BOARD, BOTT                   |                    |                             | <del>, 4</del> 3)                      |             |
| R1449<br>R1450 | 1-249-403-11                 | CARBON                         | 68<br>1K          | 5%<br>5%   | 1/4W<br>1/4W   | Ì              |   | TRAY (53V45)                  | ,                  | -                           |  |             |
|                | 1-249-417-11                 |                                |                   |            |                |                |   | INDIVIDUAL C                  | ARTON (4           | 1 <b>T</b> 35)              |  |             |
| R1451<br>R1452 | 1-249-411-11<br>1-249-417-11 |                                | 330<br>1K         | 5%<br>5%   | 1/4W<br>1/4W   | 1              |   | TRAY (41T35)<br>CUSHION (UPP  | ER) (ASS           | /) <i>(4</i> 1T             | 35)                                    |             |
| R1453          | 1-249-401-11                 |                                | 47                | 5%         | 1/4W           |                |   | CUSHION (LOV                  |                    |                             |  |             |
| R1454<br>R1455 | 1-260-311-11<br>1-249-384-11 |                                | 39<br>1.8         | 5%<br>5%   | 1/2W<br>1/4W F |                | * 4-057-642-01                          | CUSHION (UPP                  | ER) (ASSY          | r) (61 V                    | 45)                                    |             |
|                |                              |                                |                   |            |                | į              | *4-057-643-01                           | CUSHION (LOV                  | VER) (ASS          | Y) (61                      | V45)                                   |             |
| R1456<br>R1457 | 1-215-916-00<br>1-249-417-11 | METAL OXIDE                    | 680<br>1 <b>K</b> | 5%<br>5%   | 3W F           |                |   | INDIVIDUAL C<br>TRAY (61V45)  | ARTON (6           | 1 V45)                      |  |             |
| R1458          | 1-249-384-11                 | CARBON                         | 1.8               | 5%         | 1/4W F         | '              | *4-057-650-01                           | BOARD, BOTT                   |                    |                             |  |             |
| R1459          | 1-249-400-11                 | CARBON                         | 39                | 5%         | 1/4W F         | · [            | * 4-057-651-01                          | CUSHION (UPP                  | ER) (ASSY          | r) (48V                     | 45)                                    |             |
|                |                              |                                |                   |            |                |                |   |                               |                    |                             |  |             |

# KP-41T35/48V45/53V45/61V45 RM-Y136A RM-Y901 RM-Y901 RM-Y901

| REF. NO. | PART NO.                         | DESCRIPTION   | REMARK |
|----------|----------------------------------|---|--------|
|          | * 4-057-657-01<br>* 4-057-658-01 | CUSHION (LOWER) (ASSY) (48V<br>INDIVIDUAL CARTON (48V45)<br>TRAY (48V45)<br>BOARD, BOTTOM (48V45) | (45)   |

# REMOTE COMMANDER

1-473-749-31 REMOTE COMMANDER (RM-Y136A)
(41T35)
4-978-977-01 POCKET, COVER (FOR RM-Y136A) (41T35)
1-475-215-11 REMOTE COMMANDER (RM-Y901)
(except 41T35)
4-978-977-01 POCKET, COVER (FOR RM-Y901)
(except 41T35)